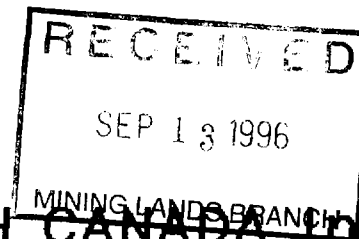




42J01NE0022 2 16778 KIPLING

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## MINERAL RESEARCH CANADA Inc.

Mineral Processing Facility 1 Industrial Blvd., R. R. # 2  
Tel. (705) 378 - 2416 Parry Sound ON P2A 2W8  
Fax. (705) 378 - 5123

### LOCATION AND ACCESS TO PROPERTY

The kaolin/silica project claims are located in the townships of Kipling and Emerson in the area of and comprising the claims historically known as the Douglas property. The claims are on the Mattagami River in the area of the Kipling Hydro dam approximately 100 miles southwest of James Bay in Ontario.

The claims are accessible by driving north on highway 634 from Smooth Rock Falls to Fraserdale (approximately 45.0 miles). Then a private Ontario Hydro road may be taken west for 40 miles to the Smoky Falls dam. A road then continues north for approximately 6 miles to the Kipling dam.

### CLAIM NUMBERS

2.16778

The kaolin/silica property consists of 371 claims (as of July 15, 1996) as well as 8 patented and one leased claim. The claim numbers are P 900001 - P 900100, P1089038 - 1089073, 1089078 - 1089111, 1090037 - 1090044, 1112282 to 1112306, 1112317 - 1112351, 825792 - 825811, 880001 - 880016, 970070 - 970104, 970168 - 970200, 983551 - 983566 & 1198514 - 1198526.

The claim numbers that this work is to be filed on are P 1198514 - 1198526.

### OWNERSHIP

The claims are wholly owned by Great Lakes Kaolin Inc.

### PREVIOUS WORK

The property history as compiled by A. Gourley (1989) cites Robert Bell of the GSC as the first person to document the presence to clay and lignite in the James Bay Lowlands on Coal Brook in 1875. Borron (1891) reported extensive deposits of silica and clay on the Missinaibi River. In 1925, a report was produced by H. S. Hancock for M<sup>c</sup>Carthy & Douglas regarding nine claims held on the bank of the Mattagami River and a company was formed (Northern Ontario China Clay Corporation).

In 1934 Minefinders Ltd financed the drilling of 18 holes on the west side of the Mattagami, directly across from the Douglas property, which became known as the General Refractory Products Ltd.

Fifteen holes were drilled in 1959 - 1960 by American Nepheline Ltd. with nine of these being in Kipling township.

The China Clay Syndicate comprised of New Calumet and Crang Securities drilled one hole to a depth of 163.0' north of the Douglas property in 1962. This hole is now known as C-1 after ownership transferal to the Chesterfield Mining & Exploration Co. Ltd.

Exploration in this areas continued in 1970, when Indusmin Ltd. drilled nine holes. The overburden depth in this area was approximately 100.0'.

Six holes were drilled by Geocon Ltd. on the Douglas claims in 1972. These claims were being leased by Brascan and a report was issued by C. Norman Simpson Consultants Ltd.

Ontario Geological Survey from 1975 - 1978 performed a drilling, geophysical, laboratory and field mapping study to determine Mesozoic stratigraphy.

Drilling was again conducted during 1981 by Selco Ltd. after a airborne magnetometer survey was completed. The seven holes were drilled into the anomalous magnetic areas.

Carlson Mines Ltd. optioned the Douglas property in 1985, and drilled five additional holes into the property. At this time a bulk sample was taken from the Douglas on which test work was performed by the Ontario Research Foundation (now Ortech International) and Lakefield Research. Carlson Mines Ltd. failed to complete option payments on the property resulting in forfeiture.

In 1989 the Douglas property was acquired by 798839 Ontario Ltd. (under the management of James Bay Kaolin Corp.), as well adjoining claims were staked to bring the total to 380 claims. An exhaustive drilling program of 168 holes was undertaken in which WRA, XRD, STEM, viscosity, abrasion, particle size distributions were done on core samples. Various separation techniques were developed as well as construction of a pilot plant begun.

In 1990 James Bay Kaolin Corporation was relieved of its managerial duties due to an improper rendering of accounts. The testing work continued, a 13 000 tonne bulk sample extracted and a 15 hole drilling program was completed in 1992 under the name of Mineral Research Canada Inc. for it's associated company Great Lakes Kaolin Inc.. Mineral Research Canada Inc. currently operates a small scale pilot producing kaolin materials in Parry Sound and continues with the testing work.

2.16778

TESTING PROCEDURES

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The following tests are used almost exclusively by the pulp & paper industry for the testing of kaolin and to a limited extent by the ceramics, rubber and other industries. These being: viscosity, abrasion, particle size distribution (by Ro-tap & Sedigraph), moisture, brightness and pH. Due to the highly lentic nature of the Moose River deposit extensive testing is required as each lithologic unit must be treated separately to evaluate its potential. The methods and equipment models used are described for each test.

VISCOSITY - provides a rough indicator as to the presence of smectites (a similar clay mineral to kaolin but has a quality of expanding to up to 11 times its length in the presence of water due to hydroxyl incorporation into the lattice structure). Viscosity is critical in the pulp and paper industry as kaolin is almost always shipped as a slurry at 70.0% solids. These slurries must be unloaded with little difficulty and remain fluid during shipping without settling out or becoming more viscous. The kaolin particle shape can also effect the viscosity (especially if large amounts of halloysite - a tubular kaolin - is present). There are two viscosity tests, one at high shear rates and the other at low shear rates. Our instrument is a Brookfield, model DV-II. For any viscometer model the minimum range is obtained by using the largest spindle at the highest level; the maximum range by using the smallest spindle at the lowest speed. It is a measurement of a specified percentage solids at a specific temperature and pH. For high brightness coating grade kaolin, the viscosity should be 300 - 600 cps., regular brightness coating grade viscosity runs from 200 - 600 cps., for water washed filler grade kaolin, the viscosity requirement is 150 - 300 centapoises.

PARTICLE SIZE DISTRIBUTION - this test is performed to give a early indication of the kaolin yield from the sample as well as the percentage of silica in each size fraction which may become important as more market are found for silica of certain size fractions (e.g. - golf course sand is only of a particular size fraction). The silica fractionation required the use of a Ro-tap after the clay portion (-325 mesh material) has been removed. The Ro-tap utilizes various sieve sizes to give the appropriate distribution. The clay portion is then tested with the sedigraph which used an X-ray beam to measure the portion if the fine material in each particle size, generally measured in microns. The particle size is critical for kaolin, it is the most crucial factor by which quality is judged. Each application of kaolin has a different particle size distribution requirement. See figure 1 (particle size for the paper products), figure 2 is a typical sedigraph for ceramic grade material. Our sedigraph results are as follows; page 1: shows tabular data of cumulative mass percent finer and mass percent in interval vs. diameter. Page 2: the curve represents cumulative mass percent finer vs. equivalent spherical diameter. Page 3: columns indicate mass population (percent in

interval) vs. equivalent spherical diameter. The instrument model is a Micromeretics Sedigraph 5100.

MOISTURE - determination of moisture must be completed in order to calculate the Ro-tap screen fractions (percentage of total dry material).

BRIGHTNESS - a significant element for the paper industry, the whiter the material is the higher the price the material commands. Brightness is especially important in kaolin that is used in paper coating. The brightness must be high to provide a good reflectance, opacity and gloss. Our instrument is a Technibrite Micro TB -1C, & is fully automatic microprocessor based that provides brightness, opacity, colour and fluorescence measurements. The powdered kaolin is pressed into a pellet form before obtaining a brightness reading.

pH - a reading is taken as an indicator of the settling quality of the sample as well as being required to perform the viscosity and abrasion tests and is a rough estimate as to the possible chemical loading of the final product - most kaolin is shipped as a pH of 4, the material from the Moose River deposit is generally alkaline. Accumet 910 meter is in our use.

ABRASION - even though the particle size distribution may indicate a large percentage of fine particles it is important that these particles be almost entirely kaolin. Silica in the Moose River deposit is frequently as fine as the kaolin platelets and because kaolin and quartz has the same specific gravity there is a constant challenge in removing sufficient silica to reduce the abrasion to an acceptable level. It is required that most abrasives be removed as their presence causes excess wear on apparatus when producing paper. The instrument used is Einlehner AT 100. Dry kaolin (100 g) is mixed with 300 mls of water, agitated 5.0 minutes, flushed with 700 mls of water, pH is then adjusted. The standard duration of the test is 2.0 hours. The abrasion of the test is measured as loss in weight  $g/m^2$  suffered by standard test screen having an abrasion areas of  $305\text{ mm}^2$ . For the regular and high brightness coating grade kaolins, abrasion value must be less than  $65g/m^2$  and water washed filler grade kaolin abrasion value is less than  $100\text{ g/m}^2$ .

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## SONIC DRILL HOLE RECORD

Drilling Started: Mar. 14, 1992  
 Drilling Finished: Mar. 14, 1992  
 Drilling Co.: J. R. Drilling  
 Dip: -90°  
 Hole Length: 252.0'  
 Overburden Depth: 140.0'  
 Claim No.: P 1112320  
 Easting: 4970 E  
 Northing: 1006 N  
 Azimuth: 50° 09' 16" N, 82° 09' 33" W  
 Location: 1600.0' at 199° to claim post no. 1  
 Property: Kipling

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 Logged By: A. Casselman  
 Logged: Sept. 18, 1992  
 Core Size: 3.5"  
 Core Storage:  
 Mineral Research Canada  
 R. R. # 2  
 Parry Sound, ON  
 P2A 2W8  
 Hole No.: 92-4

## SUMMARY

| From   | To     | Description                                |
|--------|--------|--|
| 0.0'   | 0.5'   | Peat                                       |
| 0.5'   | 140.0' | Glacial Clay Till Overburden - Pleistocene |
| 140.0' | 172.0' | Kaolin Silica Sand (Kss) Cretaceous        |
| 172.0' | 174.5' | Sandy Clay, Kss, & Clay                    |
| 174.5' | 177.0' | Kss  |
| 177.0' | 187.0' | Kss & Sandy Clay                           |
| 187.0' | 208.0' | Kss  |
| 208.0' | 213.0' | Kss & Clay                                 |
| 213.0' | 252.0' | Kss  |

MINERAL RESEARCH  
 CANADA

1 INDUSTRIAL BLVD. RR2  
 PARRY SOUND, ONTARIO  
 CANADA P2A 2W8

FAX (705) 378-5123

FAX (705) 378-2416

DATE *17-96 J. Casselman for A.C.*

EOH - 252.0'

Hole Location : 30.5 m due west of Pike Creek (Kipling Township)  
 : 4970 m E of baseline point 00  
 : 1006 m N of baseline


Detail Log - 92-4

| From   | To     | Sample No. | Description  |
|--------|--------|------------|--|
| 0.0'   | 0.5'   |            | Peat   |
| 0.5'   | 137.0' |            | Glacial Clay Till - highly competent, calcareous, rare carbonate and gneissic angular clasts.  |
| 137.0' | 140.0' |            | Glacial Clay Till/Kss - contact zone- 137.0' - 139.5' - till with external kss contamination, 139.5' - 140.0' - dark grey highly calcareous medium grain kss.  |
| 140.0' | 143.0' | 16451      | Kss - medium grey, with lighter sections, much contamination, medium grain, one larger rounded orange chert, 7.39% kaolin.   |
| 143.0' | 147.0' | 16452      | Kss - medium grain, alternating dark brown/yellow & white sections, white containing more clay, 5.34% kaolin.  |
| 147.0' | 152.0' | 16453      | Kss - medium grain, some slightly coarser areas, 151.0' - 152.0', coarse grain, light buff, more clay in coarse grain sections, minor illite and heavies, increasing in coarse grain sections, prevalent yellow chert, 7.75% kaolin. |
| 152.0' | 157.0' | 16454      | Kss - as above, coarse sections and medium grain sections alternating throughout, light grey clay clots up to 0.5", oblate siltstone angular fragments, white with silicas clasts imbedded at 154.0' - 0.5", 7.92% kaolin.           |
| 157.0' | 162.0' | 16455      | Kss - as above, 10.91% kaolin.   |
| 162.0' | 166.0' | 16456      | Kss - as above, medium grain, grading downsection, 2.0', to coarse 2.0" sharp contact with fine grain, 7.80% kaolin.   |
| 166.0' | 172.0' | 16457      | Kss - fine grain, medium grey, high percentage illite, more heavies banding - 168.5' - 169.5' - sandy clay - dark buff, fine grain, pliable, minor illite and heavies, areas of dark grey inside, rare large sub-                    |

rounded smoky quartz, 0.25", 11.90% kaolin.

- 172.0' 174.5' 16458 Sandy Clay, Kss, & Clay - buff, sandy clay - pliable, high illite content, large flake, chocolate brown pliable clay, 4.0" buff with dark brown laminations, kss - buff, fine grain, 2.0" to light brown, pliable sandy clay, to medium grain, medium brown clay 5.0", pliable, high illite, to kss, medium grain light brown, rare larger sub-rounded smoky quartz 0.25", to sandy clay - pliable, buff, darker laminations, purple laminations, minor illite, some medium grain kss mottling, 36.00% kaolin.
- 174.5' 177.0' 16459 Kss - medium grain, light brown, rare larger sub-rounded smoky quartz up to 0.25", minor illite and heavies, 10.63% kaolin.
- 177.0' 182.0' 16460 Kss & Sandy Clay - all medium grain, light brown, minor illite and heavies, some heavies banding, large flake illite in sandy clay, 14.41% kaolin.
- 182.0' 187.0' 16461 Kss & Sandy Clay - as above, rusty coloured exterior contamination, 0.5" band at 183.0' - containing large rounded jasper and clay clots 0.25" and high percentage heavies - garnet?, 11.22% kaolin.
- 187.0' 188.0' 16462 Kss - medium grain with larger clasts grading to fine grain, light brown, minor illite and heavies, 13.77% kaolin.
- 188.0' 193.0' 16463 Kss - fine grain grading downsection to coarse grain, then medium grain, with coarser clasts, minor illite, high percentage heavies in bands as well as dispersed, extremely large sub-rounded milky quartz in fine grain at 188.5', 2.5", medium to dark grey where heavies banding occurs, vari-coloured silicas, 7.95% kaolin.
- 193.0' 199.0' 16464 Kss - medium grain, with frequent larger clasts alternating with coarse grain in a white (light grey in some areas) clay matrix, minor heavies & illite, vari-coloured silica, dark concord purple clay horseshoeshapedclot at 198.0', 9.29% kaolin.




199.0' 203.0' 16465 Kss - coarse grain in a medium grain matrix, light grey, clasts up to 2.5", sub-rounded vari-coloured silica, minor illite and heavies, one area of black-like purple, minor clay clotting near larger clasts, 10.38% kaolin



203.0' 208.0' 16466 Kss - coarse grain, in a medium grain matrix, as above, 203.0' - 205.5' - last 0.5" dark grey, higher percentage of heavies, banded, after 205.5' - 208.0', white, clay depleted, rust staining due to drilling debris, very small percentage illite and heavies, some clay-rich bands, close to clay matrix, purple clots, 8.63% kaolin.

208.0' 213.0' 16467 Kss & Clay - kss - 208.0' - 210.0' - clay-rich medium grain, frequent coarse clasts, buff with some yellowish areas, one area of sherbet clay surrounded an orange chert, 210.0' - 211.0' - clay - pliable, buff with medium grain, buff kss mottling at 210.0', clay is dark green, some black with dark yellow/green contact with kss, pliable, some purple laminations at contact with buff clay, 211.0' - 213.0' - kss - medium grain, light brown, frequent large smoky quartz and yellow chert up to 2.0", minor heavies and heavies banding, garnet?, minor illite, 20.10% kaolin.

213.0' 218.0' 16468 Kss - medium grain grading to coarse grain in a medium grain matrix to coarse grain in a light grey clay matrix, vari-coloured silicas, sub-angular to rounded, 7 Devonian clasts found from 214.0' - 217.75' - 1. - siliceous dolostone highly irregular weathering, very pitted, sub-angular, 2.0" x 1.0", highly fossiliferous, 33.0% colonial coral, brachiopods, crinoids etc., dark grey, nearly black in some





areas, *in situ* crystal growth, very small spheres are orange brown, 2. - clast is 3.0" x 2.5" dark grey sandstone, extremely fine grain, chatter marks, no apparent fossils, sub-angular, 3. is as 2. but oval in cross section, no apparent fossils, but itself a possible large crinoid section or solitary coral, 4.&5. - small, oblate clasts, black, has very pitted surface, no fossils - other similar but centrally grey, apparent zaphrenis, 6. & 7. - 2 pieces of the same rock possibly split by the action of the drill although not likely, light grey, very pitted, same exterior & interior colour together 3.5", adjoining flat surface shows a solitary horn coral, green around the fossil, one piece shows a purple section near a fossil, angular, *in situ* pyritic growth, silica clasts as part of the rock, dolostone, 9.09% kaolin.

- 218.0' 223.0' 16469 Kss - coarse grain in a white clay matrix, some purple near heavies bandings, grading to medium grain, to fine grain, clay-rich, vari-coloured silica, after 219.0' - buff, minor heavies and illite, frequent coarse clasts at 221.0' - large no. of granular clasts, angular - prolate generally red/brown, entirely composed of silica and garnet, garnets as heavies, banding of garnets, some faceted orange/brown (Lakefield Research report July 1993 states inhomogeneity and multicomponent mineral aggregates), 16.25% kaolin.
- 223.0' 228.0' 16470 Kss - extremely coarse grain in a buff sandy clay matrix, minor illite - 223.0' - 224.0', 224.0' - 228.0' - kss - fine grain, light brown, minor illite and heavies, some clay enrichment, mottling and heavies banding, 16.53% kaolin.
- 228.0' 232.0' 16471 Kss - white, medium grain, small clay clots, minor heavies and illite, half of the core out of the box, not sampled, heavies as laminations, dark banding, 6.81% kaolin.
- 232.0' 237.0' 16472 Kss - as above, 5.42% kaolin.
- 237.0' 242.0' 16473 Kss - as above from 237.0' - 241.0', 241.0' - 242.0' - higher clay content, very light brown/red, 0.25" clay seam - medium brown, some black laminations at 241.75' - minor heavies - dispersed and as banding, minor

illite, coarser grain, green/yellow band at  
238.75' of 2.0", 6.84% kaolin.

242.0' 246.75' 16474 Kss - as at 237.0' - 241.0' - clay clot -  
medium brown, pliable at lower contact,  
large clasts at lower contact, more  
red/brown than above, 8.35% kaolin.

246.75' 252.0' 16475 Kss - nearly sandy clay, buff, fine grain,  
chocolate & medium brown mottled, some  
illite seams, large flake illite in seams,  
minor heavies, 29.52% kaolin.

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EOH - 252.0'

Section 92-4

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Claim No.: P 1112320

Hole Length: 252.0'

Overburden Depth: 140.0'

Astronomic Azimuth:  $50^{\circ} 09' 16''$  W.  $82^{\circ} 09' 33''$  N

Location: 1600.0' at  $199^{\circ}$  to claim post no. 1

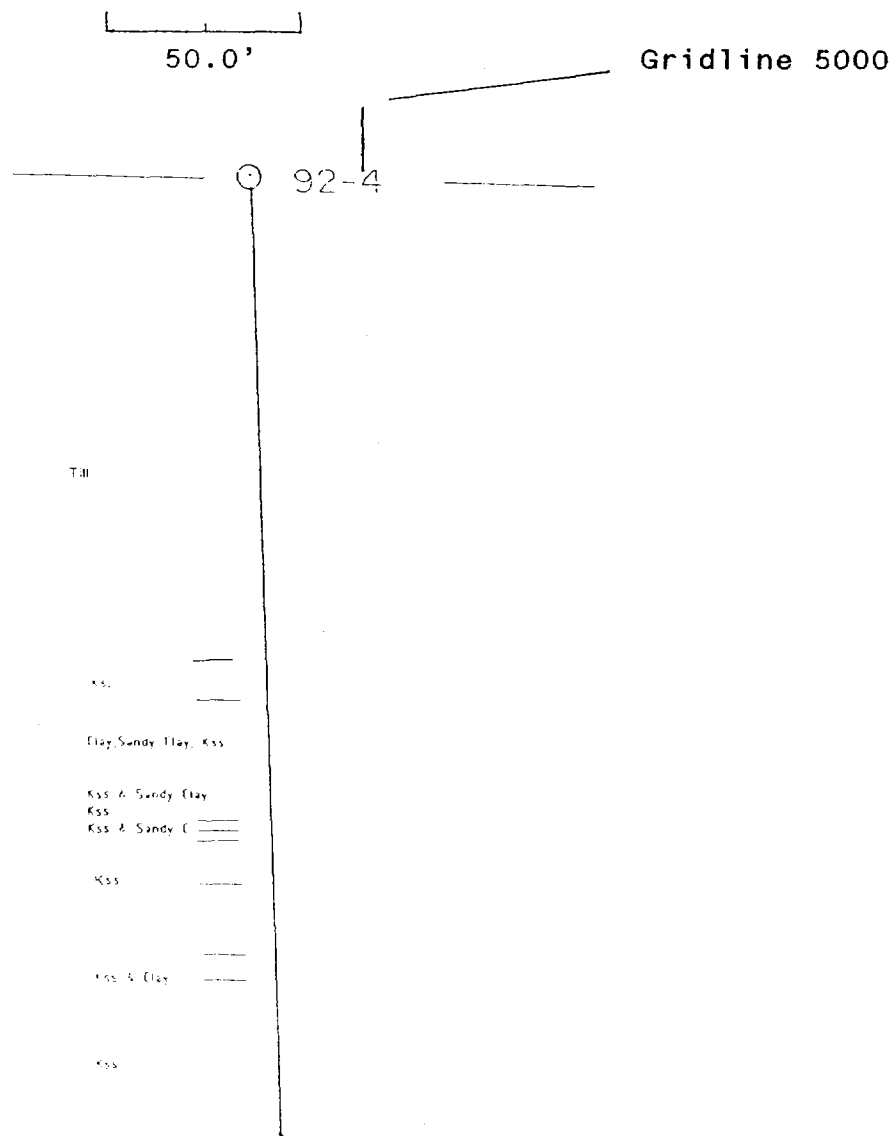
Scale: 1.0" = 50.0' or 1:600

Northing: 1470 N

Easting: 4970 E

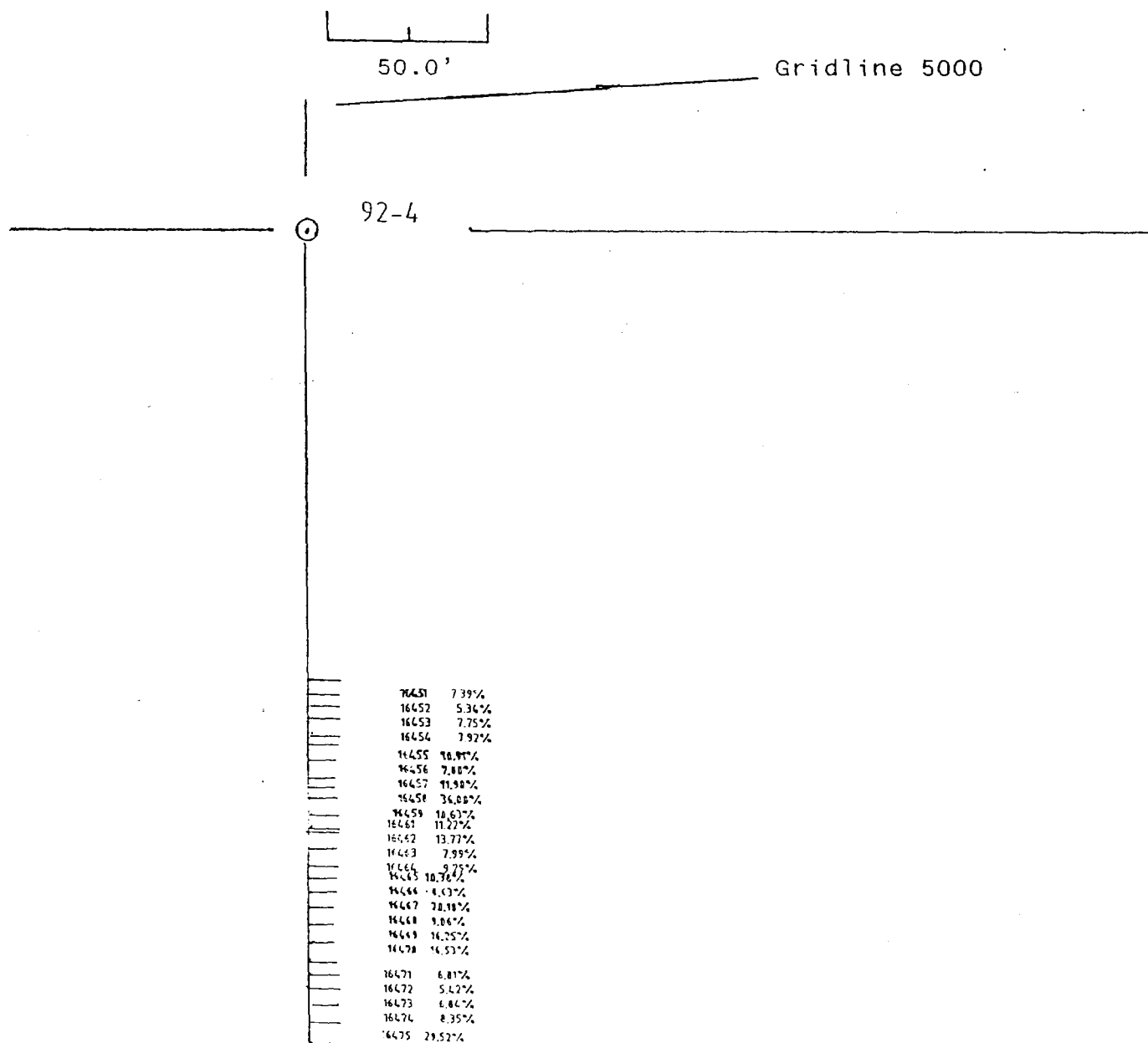
Dip:  $-90^{\circ}$

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Section 92-4

Claim No.: P 1112320  
Hole Length: 252.0'  
Overburden Depth: 140.0'  
Astronomic Azimuth: 50° 09' 16" N, 82° 09' 33" W  
Location: 1600.0' at 199° to claim post no. 1  
Scale: 1.0" = 50.0' or 1:600  
Northing: 1470 N  
Easting: 4970 E  
Dip: -90°



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## MINERAL RESEARCH CANADA INC.

TEL: (705-378-2416)  
FAX: (705-378-5123)1 INDUSTRIAL BLVD., RR2  
PARRY SOUND, ON. CANADA  
P2A 2W8ANALYSIS REPORT

| SAMPLE # | SCREEN | %    | MOISTURE % |
|----------|--------|------|------------|
| 16451    | + 4    | 0.2  | 2.0        |
|          | + 40   | 48.1 |            |
|          | + 100  | 28.9 |            |
|          | + 200  | 4.9  |            |
|          | + 325  | 1.8  |            |
|          | - 325  | 16.1 |            |
| 16452    | + 4    | 4.6  | 0.1        |
|          | + 40   | 56.6 |            |
|          | + 100  | 23.0 |            |
|          | + 200  | 3.5  |            |
|          | + 325  | 1.8  |            |
|          | - 325  | 10.5 |            |
| 16453    | + 4    | 15.0 | 3.9        |
|          | + 40   | 52.1 |            |
|          | + 100  | 22.4 |            |
|          | + 200  | 1.6  |            |
|          | + 325  | 0.6  |            |
|          | - 325  | 8.3  |            |
| 16454    | + 4    | 17.0 | 3.7        |
|          | + 40   | 62.5 |            |
|          | + 100  | 11.1 |            |
|          | + 200  | 1.0  |            |
|          | + 325  | 0.7  |            |
|          | - 325  | 7.7  |            |
| 16455    | + 4    | 17.8 | 0.2        |
|          | + 40   | 53.7 |            |
|          | + 100  | 14.6 |            |
|          | + 200  | 2.0  |            |
|          | + 325  | 0.9  |            |
|          | - 325  | 11.0 |            |

|  |                    |
|--|--------------------|
| <b>MINERAL RESEARCH<br/>CANADA</b>                               |                    |
| 1 INDUSTRIAL BLVD. RR2<br>PARRY SOUND, ONTARIO<br>CANADA P2A 2W8 |                    |
| FAX (705) 378-5123   | BUS (705) 378-2416 |
| DATE 17/6-1996   | <i>D. Malinski</i> |

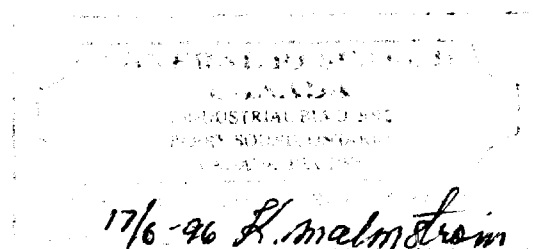
# MINERAL RESEARCH CANADA INC.

TEL: (705-378-2416)  
FAX: (705-378-5123)

1 INDUSTRIAL BLVD., RR2  
PARRY SOUND, ON. CANADA  
P2A 2W8

## ANALYSIS REPORT

| <u>SAMPLE #</u> | <u>SCREEN</u> | <u>%</u> | <u>MOISTURE %</u> |
|-----------------|---------------|----------|-------------------|
| 16456           | + 4           | 20.2     | 0.1               |
|                 | + 40          | 52.7     |                   |
|                 | + 100         | 12.1     |                   |
|                 | + 200         | 2.7      |                   |
|                 | + 325         | 1.0      |                   |
|                 | - 325         | 11.3     |                   |
| 16457           | + 4           | 0.1      | 1.9               |
|                 | + 40          | 36.4     |                   |
|                 | + 100         | 48.4     |                   |
|                 | + 200         | 3.5      |                   |
|                 | + 325         | 1.0      |                   |
|                 | - 325         | 10.6     |                   |
| 16458           | + 4           | 0.0      | 7.1               |
|                 | + 40          | 5.6      |                   |
|                 | + 100         | 37.0     |                   |
|                 | + 200         | 10.7     |                   |
|                 | + 325         | 6.0      |                   |
|                 | - 325         | 40.7     |                   |
| 16459           | + 4           | 0.3      | 3.6               |
|                 | + 40          | 52.6     |                   |
|                 | + 100         | 32.0     |                   |
|                 | + 200         | 3.3      |                   |
|                 | + 325         | 1.1      |                   |
|                 | - 325         | 10.7     |                   |
| 16460           | + 4           | 0.4      | 5.0               |
|                 | + 40          | 20.4     |                   |
|                 | + 100         | 62.1     |                   |
|                 | + 200         | 3.2      |                   |
|                 | + 325         | 1.6      |                   |
|                 | - 325         | 12.3     |                   |



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1 INDUSTRIAL BLVD., RR2  
PARRY SOUND, ON. CANADA  
P2A 2W8

## ANALYSIS REPORT

| <u>SAMPLE #</u> | <u>SCREEN</u> | <u>%</u> | <u>MOISTURE</u> | <u>%</u> |
|-----------------|---------------|----------|-----------------|----------|
| 16461           | + 4           | 0.1      | 0.1             |          |
|                 | + 40          | 34.8     |                 |          |
|                 | + 100         | 48.1     |                 |          |
|                 | + 200         | 3.1      |                 |          |
|                 | + 325         | 1.1      |                 |          |
|                 | - 325         | 12.8     |                 |          |
| 16462           | + 4           | 3.2      | 8.9             |          |
|                 | + 40          | 23.6     |                 |          |
|                 | + 100         | 45.3     |                 |          |
|                 | + 200         | 7.6      |                 |          |
|                 | + 325         | 1.6      |                 |          |
|                 | - 325         | 18.7     |                 |          |
| 16463           | + 4           | 5.0      | 3.3             |          |
|                 | + 40          | 62.2     |                 |          |
|                 | + 100         | 23.2     |                 |          |
|                 | + 200         | 1.5      |                 |          |
|                 | + 325         | 0.5      |                 |          |
|                 | - 325         | 7.6      |                 |          |
| 16464           | + 4           | 18.3     | 0.1             |          |
|                 | + 40          | 58.3     |                 |          |
|                 | + 100         | 11.2     |                 |          |
|                 | + 200         | 1.9      |                 |          |
|                 | + 325         | 0.7      |                 |          |
|                 | - 325         | 9.6      |                 |          |
| 16465           | + 4           | 32.2     | 1.3             |          |
|                 | + 40          | 44.2     |                 |          |
|                 | + 100         | 11.9     |                 |          |
|                 | + 200         | 2.4      |                 |          |
|                 | + 325         | 0.7      |                 |          |
|                 | - 325         | 8.6      |                 |          |

|  |                    |
|--|--------------------|
| <b>MINERAL RESEARCH<br/>CANADA</b>                               |                    |
| 1 INDUSTRIAL BLVD. RR2<br>PARRY SOUND, ONTARIO<br>CANADA P2A 2W8 |                    |
| FAX (705) 378-5123   | BUS (705) 378-2416 |
| DATE <i>16-96</i> <i>A. Malmstrom</i>                            |                    |

# MINERAL RESEARCH CANADA INC.

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1 INDUSTRIAL BLVD., RR2  
PARRY SOUND, ON. CANADA  
P2A 2W8

## ANALYSIS REPORT

| <u>SAMPLE #</u> | <u>SCREEN</u> | <u>%</u> | <u>MOISTURE</u> | <u>%</u> |
|-----------------|---------------|----------|-----------------|----------|
| 16466           | + 4           | 16.7     | 0.1             |          |
|                 | + 40          | 63.0     |                 |          |
|                 | + 100         | 8.8      |                 |          |
|                 | + 200         | 2.9      |                 |          |
|                 | + 325         | 0.6      |                 |          |
|                 | - 325         | 8.0      |                 |          |
| 16467           | + 4           | 9.4      | 2.4             |          |
|                 | + 40          | 36.2     |                 |          |
|                 | + 100         | 39.1     |                 |          |
|                 | + 200         | 1.8      |                 |          |
|                 | + 325         | 0.8      |                 |          |
|                 | - 325         | 12.6     |                 |          |
| 16468           | + 4           | 24.6     | 1.3             |          |
|                 | + 40          | 55.2     |                 |          |
|                 | + 100         | 9.3      |                 |          |
|                 | + 200         | 1.7      |                 |          |
|                 | + 325         | 0.6      |                 |          |
|                 | - 325         | 8.6      |                 |          |
| 16469           | + 4           | 5.3      | 2.5             |          |
|                 | + 40          | 34.7     |                 |          |
|                 | + 100         | 22.4     |                 |          |
|                 | + 200         | 12.0     |                 |          |
|                 | + 325         | 3.1      |                 |          |
|                 | - 325         | 22.5     |                 |          |
| 16470           | + 4           | 3.6      | 2.0             |          |
|                 | + 40          | 5.2      |                 |          |
|                 | + 100         | 53.9     |                 |          |
|                 | + 200         | 9.6      |                 |          |
|                 | + 325         | 2.0      |                 |          |
|                 | - 325         | 25.7     |                 |          |

|  |                    |
|--|--------------------|
| <b>MINERAL RESEARCH<br/>CANADA</b>                               |                    |
| 1 INDUSTRIAL BLVD. RR2<br>PARRY SOUND, ONTARIO<br>CANADA P2A 2W8 |                    |
| FAX (705) 378-5123   | BUS (705) 378-2416 |
| DATE _____   |                    |



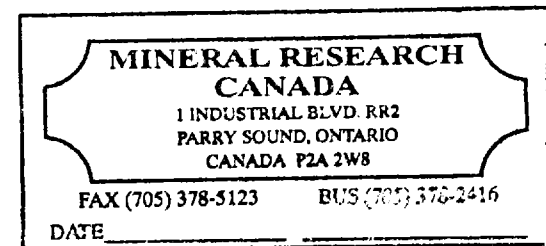
# MINERAL RESEARCH CANADA INC.

TEL: (705-378-2416)  
FAX: (705-378-5123)

1 INDUSTRIAL BLVD., RR2  
PARRY SOUND, ON. CANADA  
P2A 2W8

## ANALYSIS REPORT

| <u>SAMPLE #</u> | <u>SCREEN</u> | <u>%</u> | <u>MOISTURE</u> | <u>%</u> |
|-----------------|---------------|----------|-----------------|----------|
| 16471           | + 4           | 0.1      | 3.0             |          |
|                 | + 40          | 63.6     |                 |          |
|                 | + 100         | 26.0     |                 |          |
|                 | + 200         | 2.5      |                 |          |
|                 | + 325         | 0.7      |                 |          |
|                 | - 325         | 7.2      |                 |          |
| 16472           | + 4           | 0.2      | 3.4             |          |
|                 | + 40          | 82.4     |                 |          |
|                 | + 100         | 8.6      |                 |          |
|                 | + 200         | 1.8      |                 |          |
|                 | + 325         | 0.4      |                 |          |
|                 | - 325         | 6.6      |                 |          |
| 16473           | + 4           | 2.6      | 0.1             |          |
|                 | + 40          | 77.3     |                 |          |
|                 | + 100         | 9.5      |                 |          |
|                 | + 200         | 2.1      |                 |          |
|                 | + 325         | 0.7      |                 |          |
|                 | - 325         | 7.8      |                 |          |
| 16474           | + 4           | 2.4      | 1.5             |          |
|                 | + 40          | 77.9     |                 |          |
|                 | + 100         | 7.8      |                 |          |
|                 | + 200         | 1.8      |                 |          |
|                 | + 325         | 0.6      |                 |          |
|                 | - 325         | 9.5      |                 |          |
| 16475           | + 4           | 0.0      | 12.1            |          |
|                 | + 40          | 0.6      |                 |          |
|                 | + 100         | 29.1     |                 |          |
|                 | + 200         | 30.6     |                 |          |
|                 | + 325         | 4.2      |                 |          |
|                 | - 325         | 35.5     |                 |          |



SAMPLE DIRECTORY/NUMBER: DATAB /82  
 SAMPLE ID: Hole 92-4 # 16451  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 88 kilocounts/sec

UNIT NUMBER: 1  
 START 09:17:13 07/04/96  
 REPT 09:25:19 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7607 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00 um  
 ENDING DIAMETER: 0.40 um

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

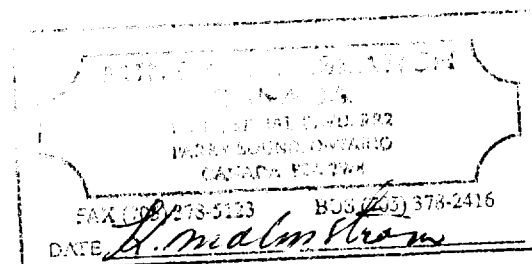
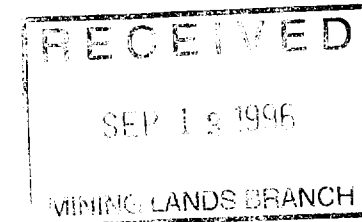
## MASS DISTRIBUTION

MEDIAN DIAMETER: 2.18 um

MODAL DIAMETER: 0.93 um

| DIAMETER<br>(um) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------|------------------------------------|-------------------------------|
| 100.00           | 100.1                              | -0.1                          |
| 80.00            | 99.8                               | 0.3                           |
| 60.00            | 99.4                               | 0.4                           |
| 50.00            | 98.9                               | 0.5                           |
| 40.00            | 98.1                               | 0.8                           |
| 30.00            | 97.3                               | 0.8                           |
| 25.00            | 96.4                               | 0.9                           |
| 20.00            | 94.4                               | 2.0                           |
| 15.00            | 91.2                               | 3.1                           |
| 10.00            | 85.1                               | 6.1                           |
| 8.00             | 80.8                               | 4.4                           |
| 6.00             | 73.4                               | 7.4                           |
| 5.00             | 67.9                               | 5.5                           |
| 4.00             | 61.7                               | 6.2                           |
| 3.00             | 55.2                               | 6.5                           |
| 2.00             | 48.6                               | 6.5                           |
| 1.50             | 42.3                               | 6.3                           |
| 1.00             | 29.7                               | 12.5                          |
| 0.80             | 22.7                               | 7.1                           |
| 0.60             | 14.8                               | 7.9                           |
| 0.50             | 11.4                               | 3.4                           |
| 0.40             | 8.4                                | 3.0                           |

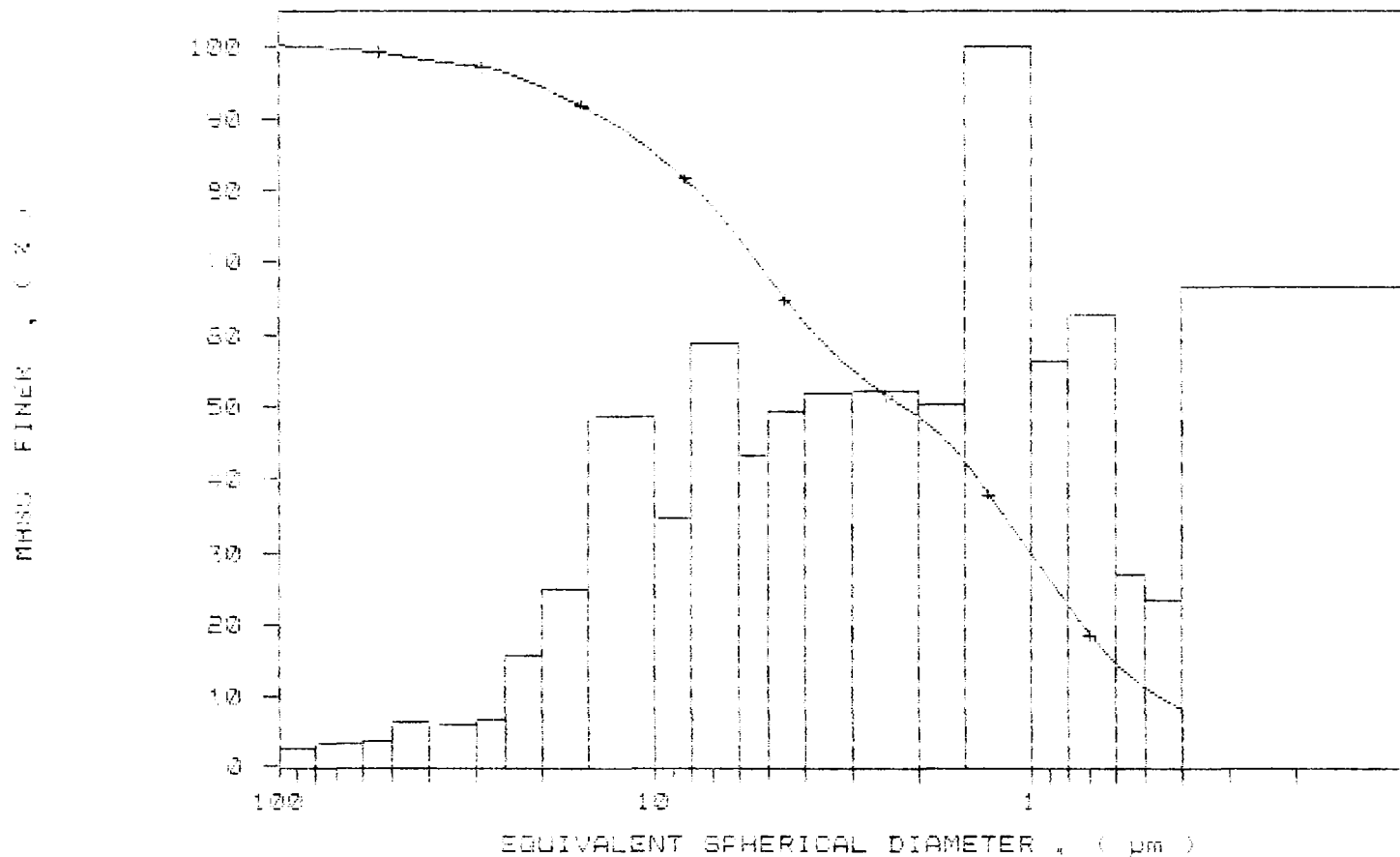
**2.16778**



SAMPLE DIRECTORY/NUMBER: DATAB /82  
 SAMPLE ID: Hole 92-4 # 16451  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 88 kilocounts/sec

UNIT NUMBER: 1  
 START 09:17:13 07/04/96  
 REPT 09:25:19 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7607 cp  
 RUN TYPE: High Speed

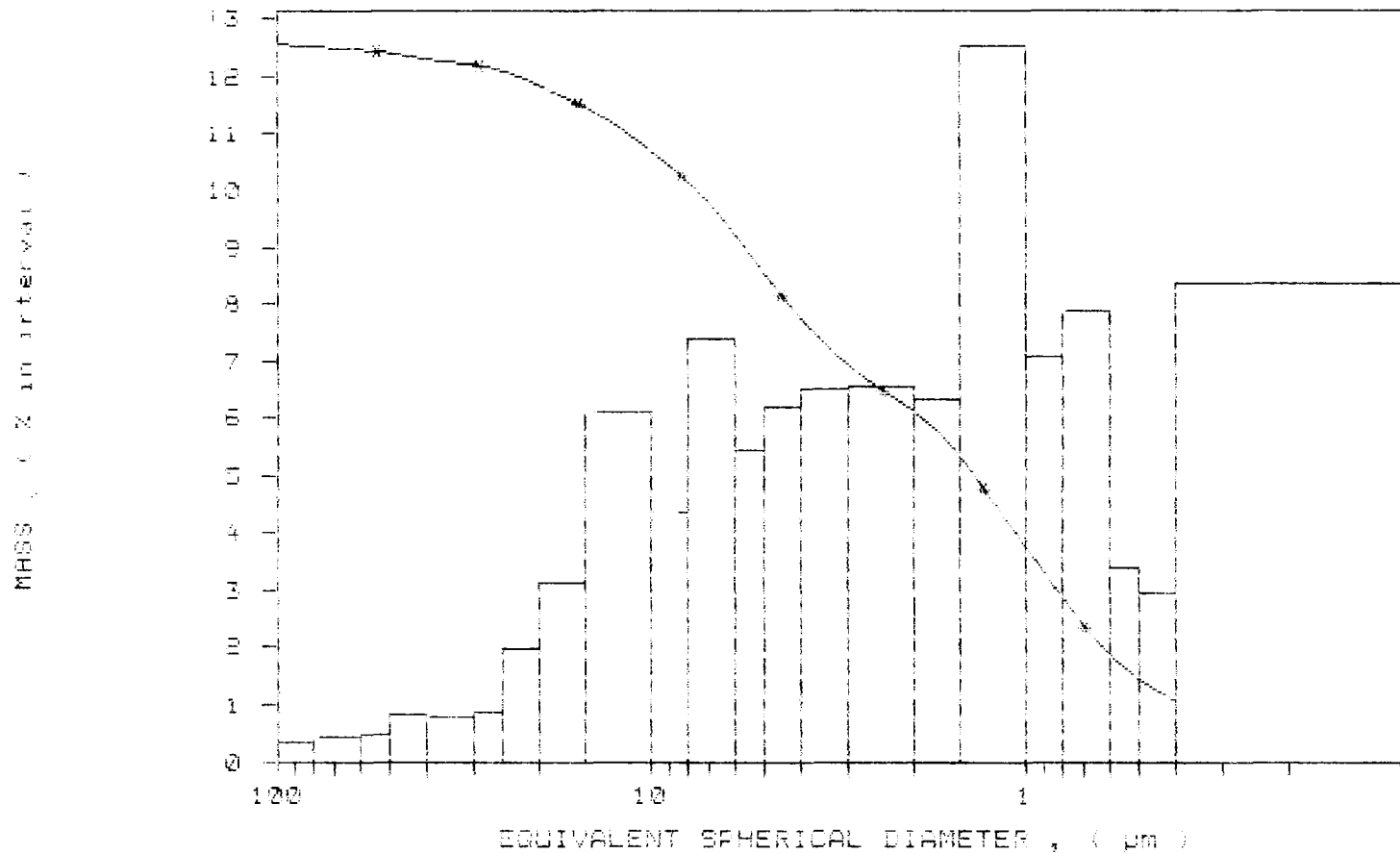
- CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAS /82  
SAMPLE ID: Hole 92-4 # 16451  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 88 kilocounts/sec

UNIT NUMBER: 1  
START 09:17:13 07/04/96  
REPT 09:25:19 07/04/96  
TOT RUN TIME 0:07:48  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7607 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /83  
 SAMPLE ID: Hole 92-4 # 16452  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
 START 09:37:01 07/04/96  
 REPRT 09:45:09 07/04/96  
 TOT RUN TIME 0:07:50  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

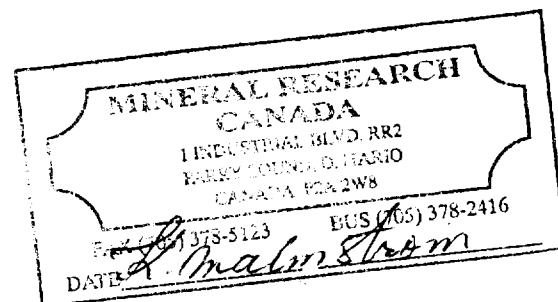
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 3.85  $\mu$ m

MODAL DIAMETER: 5.69  $\mu$ m

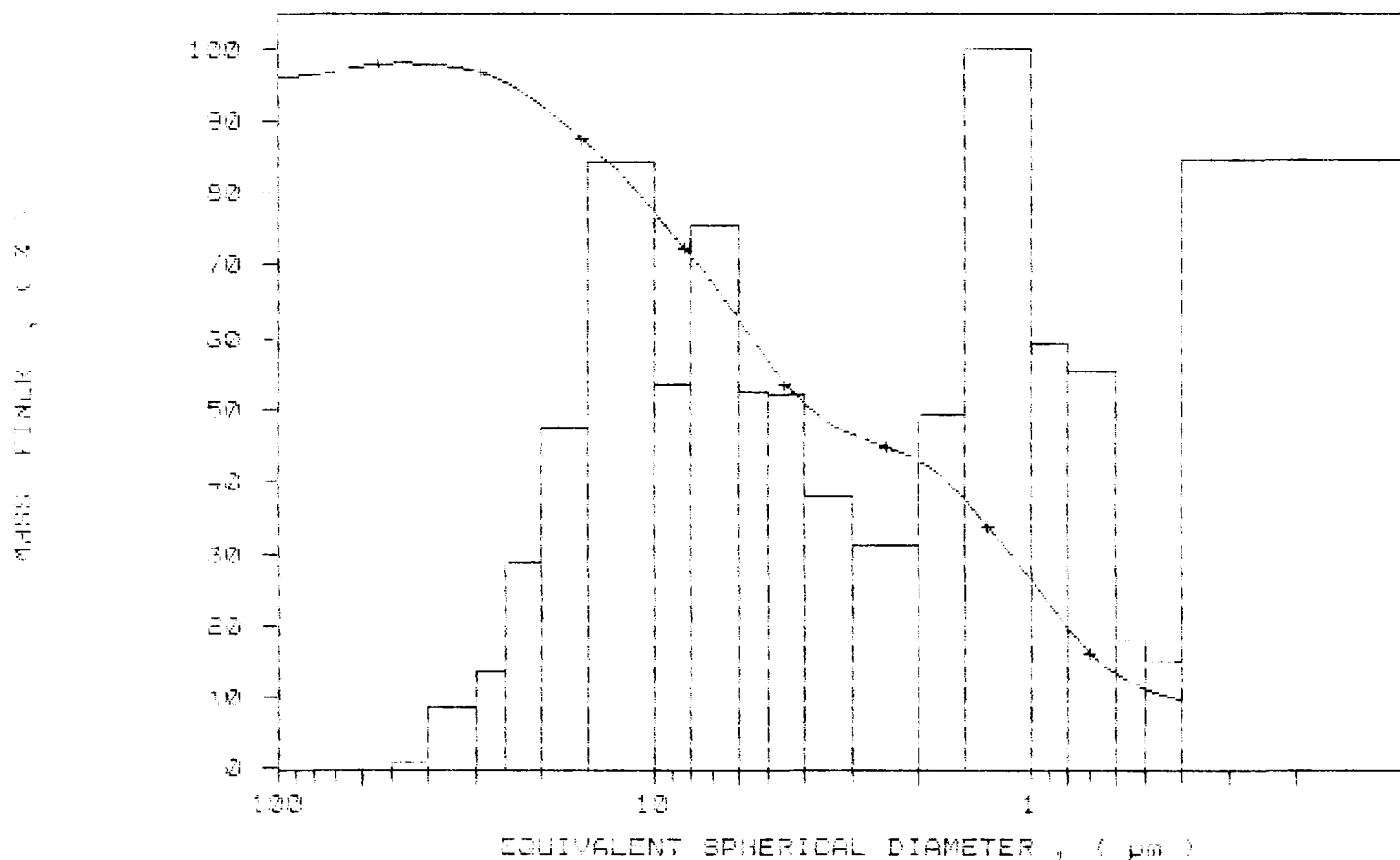
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 96.0                               | 4.0                           |
| 80.00                  | 96.4                               | -0.4                          |
| 60.00                  | 97.5                               | -1.1                          |
| 50.00                  | 97.9                               | -0.4                          |
| 40.00                  | 97.8                               | 0.1                           |
| 30.00                  | 96.8                               | 1.0                           |
| 25.00                  | 95.3                               | 1.6                           |
| 20.00                  | 92.0                               | 3.3                           |
| 15.00                  | 86.6                               | 5.4                           |
| 10.00                  | 77.1                               | 9.5                           |
| 8.00                   | 71.1                               | 6.1                           |
| 6.00                   | 62.6                               | 8.5                           |
| 5.00                   | 56.7                               | 5.9                           |
| 4.00                   | 50.8                               | 5.9                           |
| 3.00                   | 46.5                               | 4.3                           |
| 2.00                   | 43.0                               | 3.5                           |
| 1.50                   | 37.4                               | 5.5                           |
| 1.00                   | 26.2                               | 11.2                          |
| 0.80                   | 19.5                               | 6.7                           |
| 0.60                   | 13.3                               | 6.2                           |
| 0.50                   | 11.3                               | 2.0                           |
| 0.40                   | 9.5                                | 1.7                           |



SAMPLE DIRECTORY/NUMBER: DATAB /83  
SAMPLE ID: Hole 92-4 # 16452  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
START 09:37:01 07/04/96  
REPT 09:45:09 07/04/96  
TOT RUN TIME 0:07:50  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

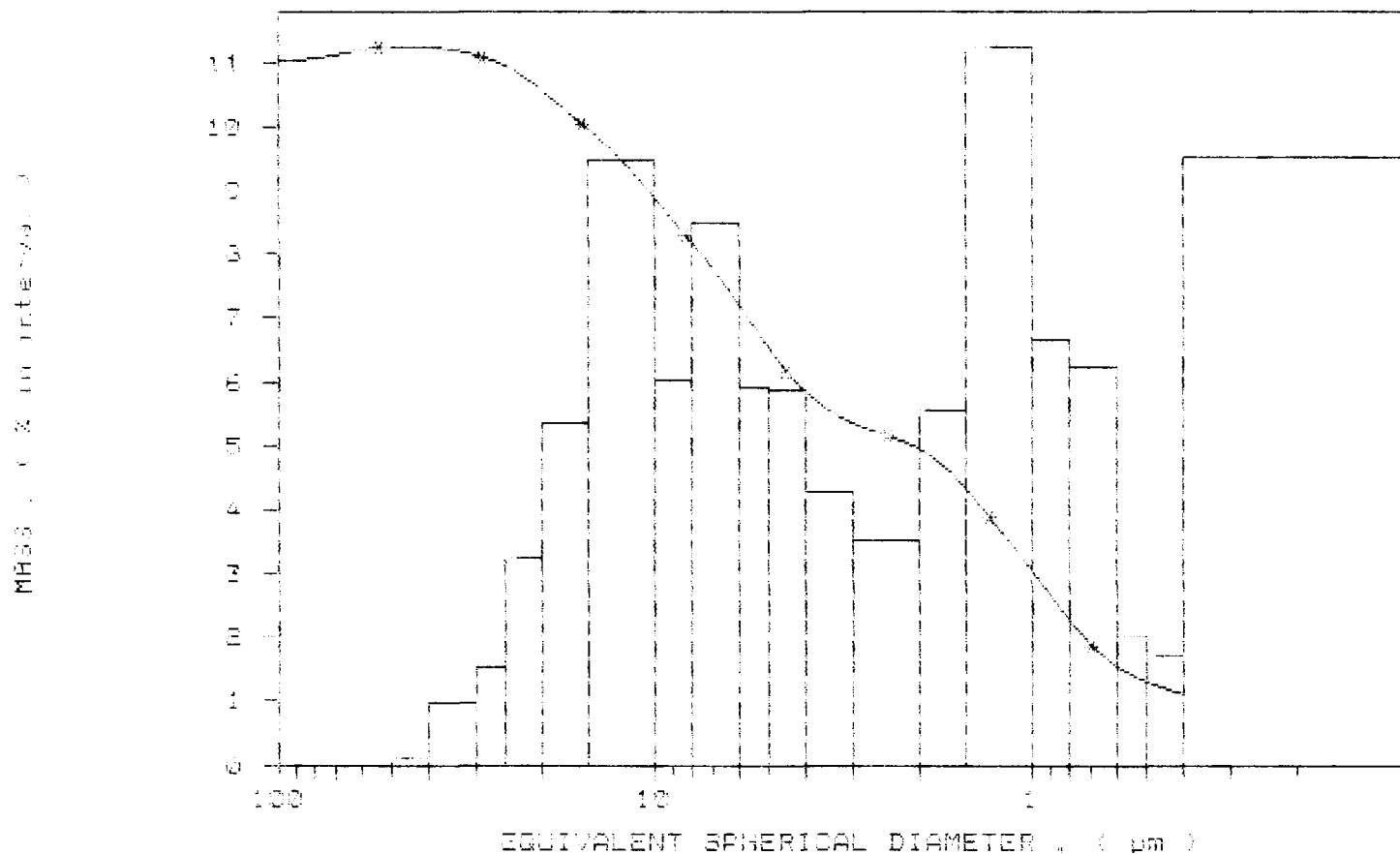
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /83  
 SAMPLE ID: Hole 92-4 # 16452  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASFLINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
 START 09:37:01 07/04/96  
 REPR 09:45:09 07/04/96  
 TOT RUN TIME 0:07:50  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /84  
 SAMPLE ID: Hole 92-4 # 16453  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: J  
 START 09:57:23 07/04/96  
 REPR 10:05:27 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

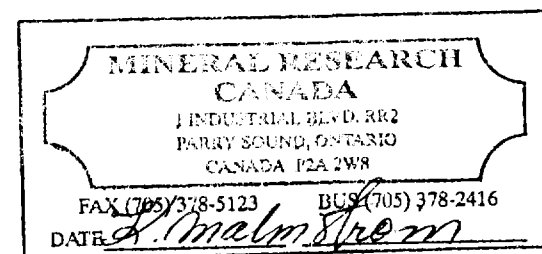
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.62  $\mu$ m

MODAL DIAMETER: 1.11  $\mu$ m

| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 96.3                               | 3.7                           |
| 80.00                  | 94.4                               | 1.9                           |
| 60.00                  | 94.5                               | -0.1                          |
| 50.00                  | 95.5                               | -1.0                          |
| 40.00                  | 95.7                               | -0.2                          |
| 30.00                  | 94.7                               | 1.0                           |
| 25.00                  | 94.1                               | 0.6                           |
| 20.00                  | 92.2                               | 1.9                           |
| 15.00                  | 87.7                               | 4.4                           |
| 10.00                  | 82.5                               | 5.3                           |
| 8.00                   | 77.5                               | 5.0                           |
| 6.00                   | 68.6                               | 8.8                           |
| 5.00                   | 63.8                               | 4.8                           |
| 4.00                   | 59.5                               | 4.2                           |
| 3.00                   | 56.6                               | 3.0                           |
| 2.00                   | 57.1                               | -0.6                          |
| 1.50                   | 46.1                               | 11.0                          |
| 1.00                   | 24.8                               | 21.3                          |
| 0.80                   | 15.1                               | 9.7                           |
| 0.60                   | 9.8                                | 5.3                           |
| 0.50                   | 7.6                                | 2.1                           |
| 0.40                   | 4.8                                | 2.8                           |

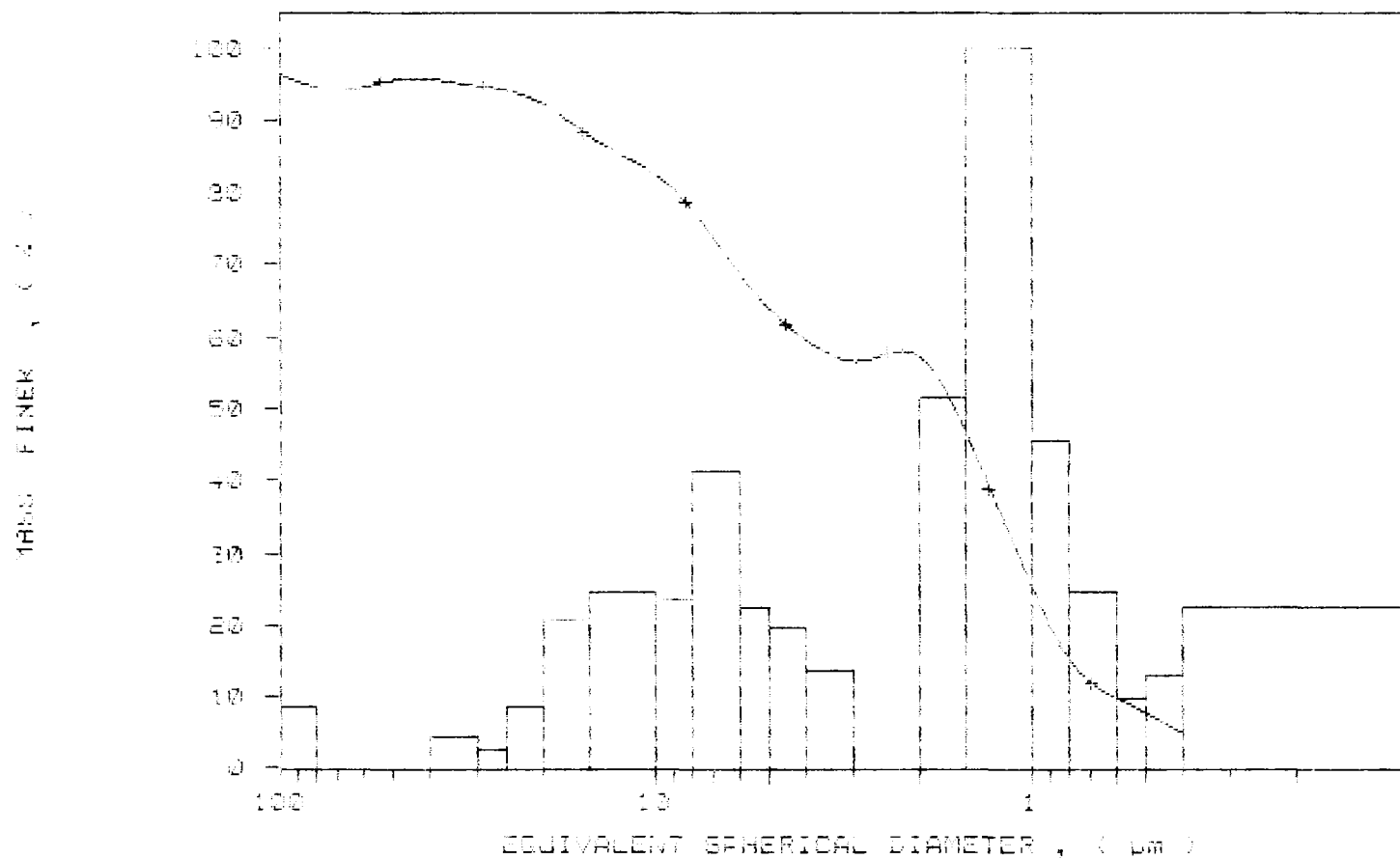




SAMPLE DIRECTORY/NUMBER: DATAB /84  
 SAMPLE ID: Hole 92-4 # 16453  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1  
 START 09:57:23 07/04/96  
 REPRT 10:05:27 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

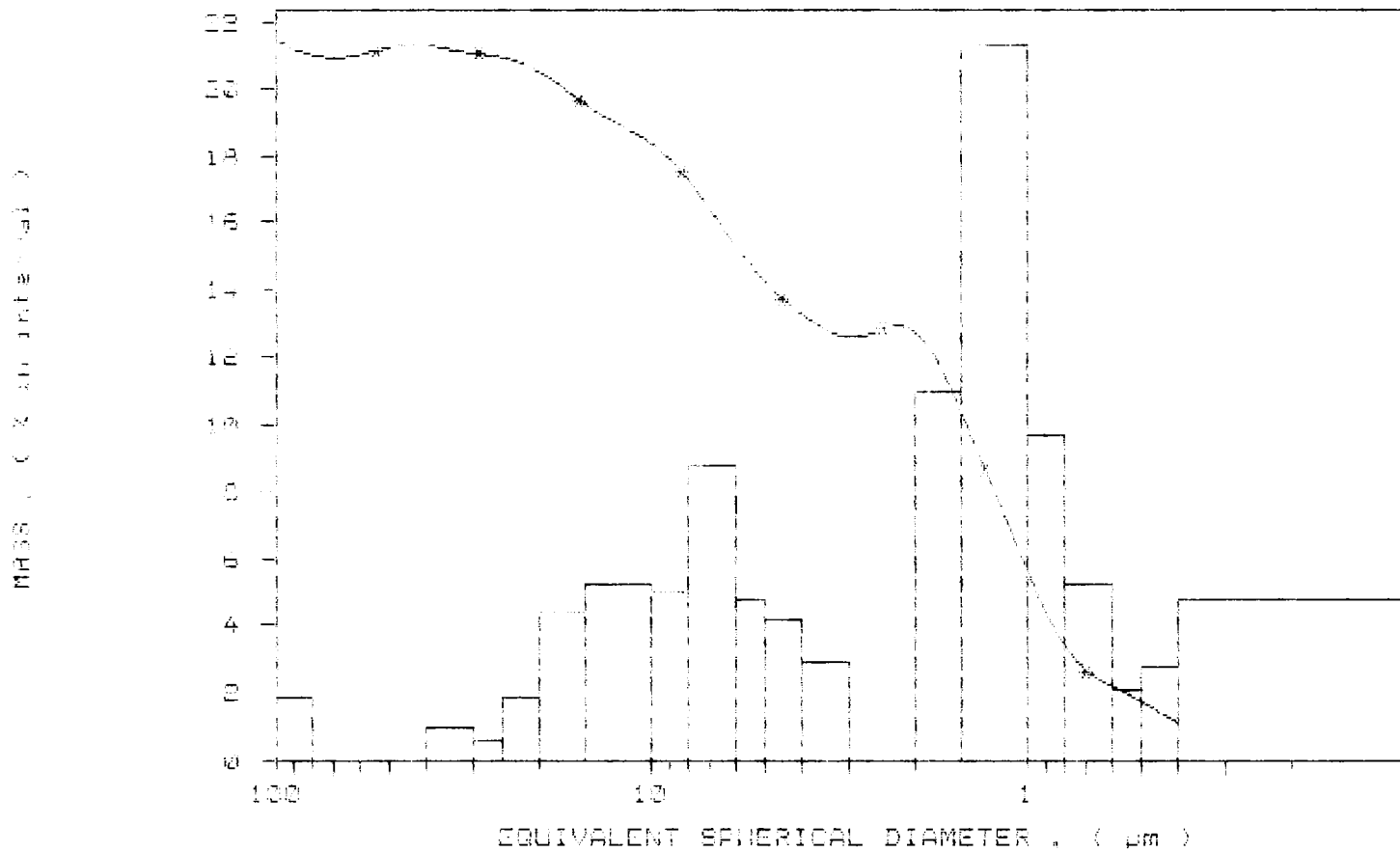
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /B4  
 SAMPLE ID: Hole 92-4 # 16453  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1  
 START 09:57:23 07/04/96  
 REPT 10:05:27 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /85  
 SAMPLE ID: Hole 92-4 # 16454  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 96 kilocounts/sec

UNIT NUMBER: 1  
 START 10:17:15 07/04/96  
 REPRT 10:25:22 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

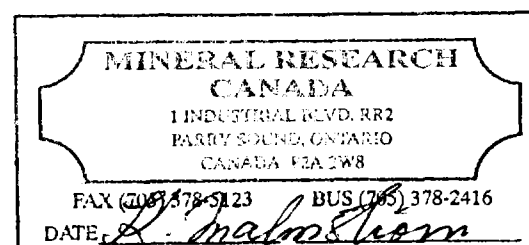
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.68  $\mu$ m

MODAL DIAMETER: 1.01  $\mu$ m

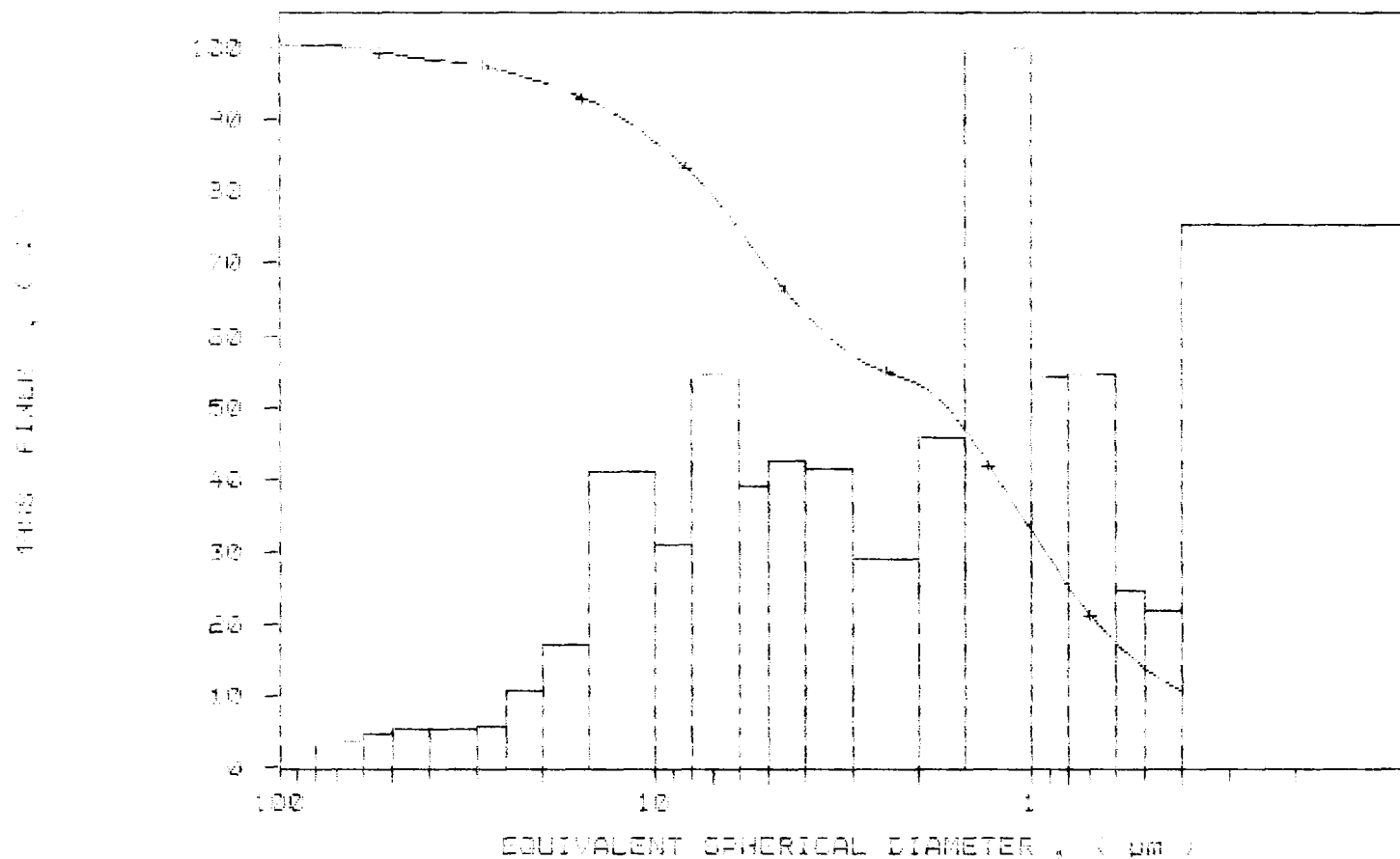
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 100.2                              | -0.2                          |
| 80.00                  | 100.3                              | -0.1                          |
| 60.00                  | 99.7                               | 0.5                           |
| 50.00                  | 99.0                               | 0.7                           |
| 40.00                  | 98.2                               | 0.8                           |
| 30.00                  | 97.4                               | 0.8                           |
| 25.00                  | 96.6                               | 0.8                           |
| 20.00                  | 95.0                               | 1.5                           |
| 15.00                  | 92.6                               | 2.4                           |
| 10.00                  | 86.8                               | 5.8                           |
| 8.00                   | 82.4                               | 4.4                           |
| 6.00                   | 74.7                               | 7.7                           |
| 5.00                   | 69.1                               | 5.5                           |
| 4.00                   | 63.1                               | 6.0                           |
| 3.00                   | 57.3                               | 5.9                           |
| 2.00                   | 53.2                               | 4.1                           |
| 1.50                   | 46.7                               | 6.5                           |
| 1.00                   | 32.6                               | 14.1                          |
| 0.80                   | 24.9                               | 7.7                           |
| 0.60                   | 17.2                               | 7.7                           |
| 0.50                   | 13.7                               | 3.5                           |
| 0.40                   | 10.6                               | 3.1                           |



SAMPLE DIRECTORY/NUMBER: DATAB /85  
 SAMPLE ID: Hole 92-4 # 16454  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 96 kilocounts/sec

UNIT NUMBER: 1  
 START 10:17:15 07/04/96  
 REPT 10:25:22 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

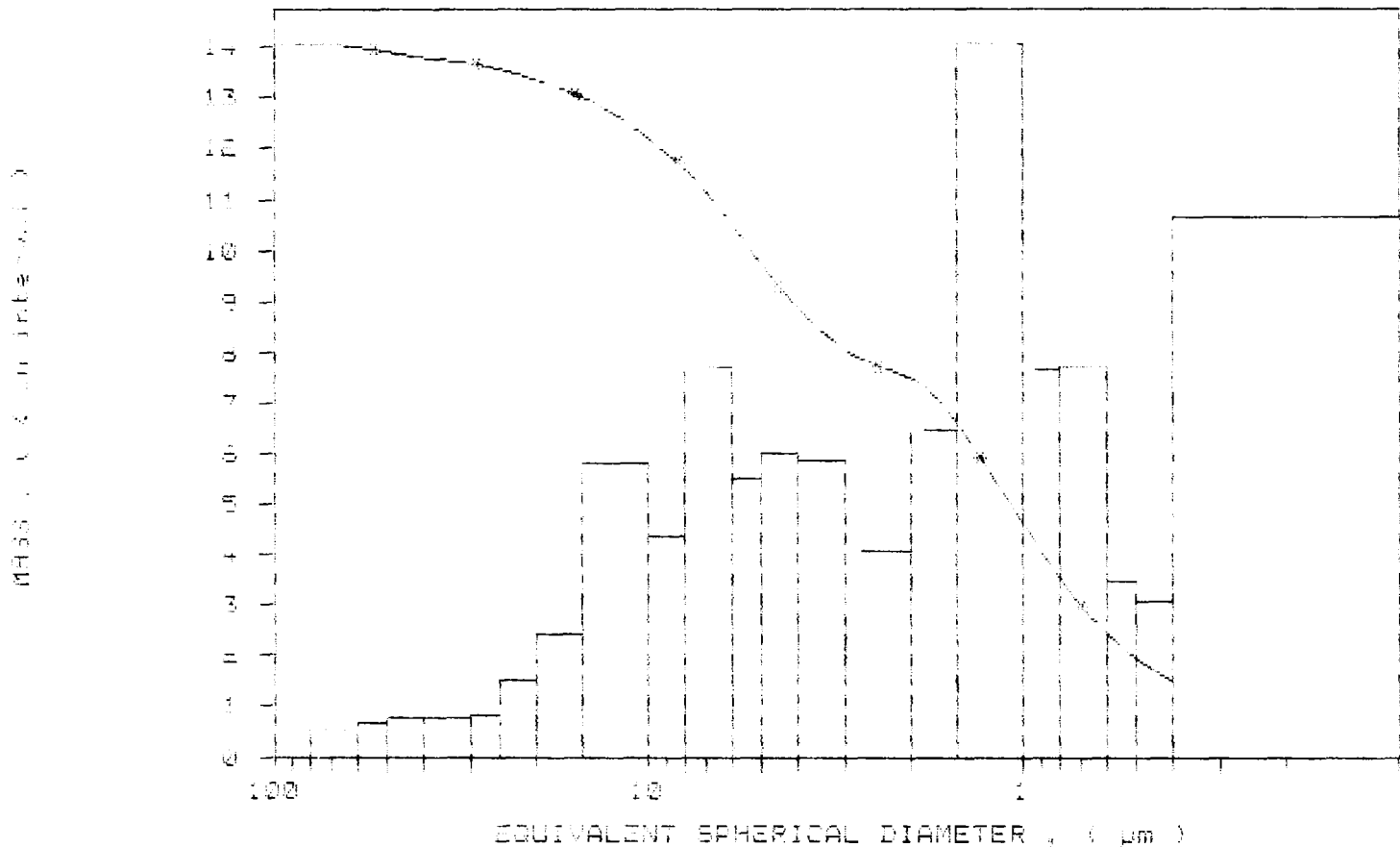
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /85  
 SAMPLE ID: Hole 92-4 # 16454  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 96 kilocounts/sec

UNIT NUMBER: 1  
 START 10:17:15 07/04/96  
 REPT 10:25:22 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /86  
 SAMPLE ID: Hole 92-4 # 16455  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1  
 START 10:37:08 07/04/96  
 REPT 10:45:13 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

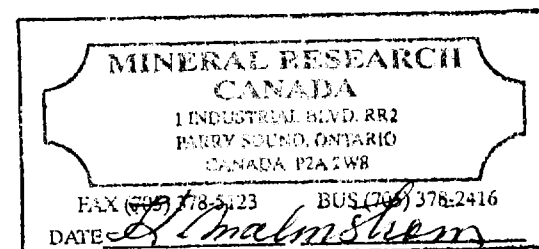
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 2.00  $\mu$ m

MODAL DIAMETER: 1.19  $\mu$ m

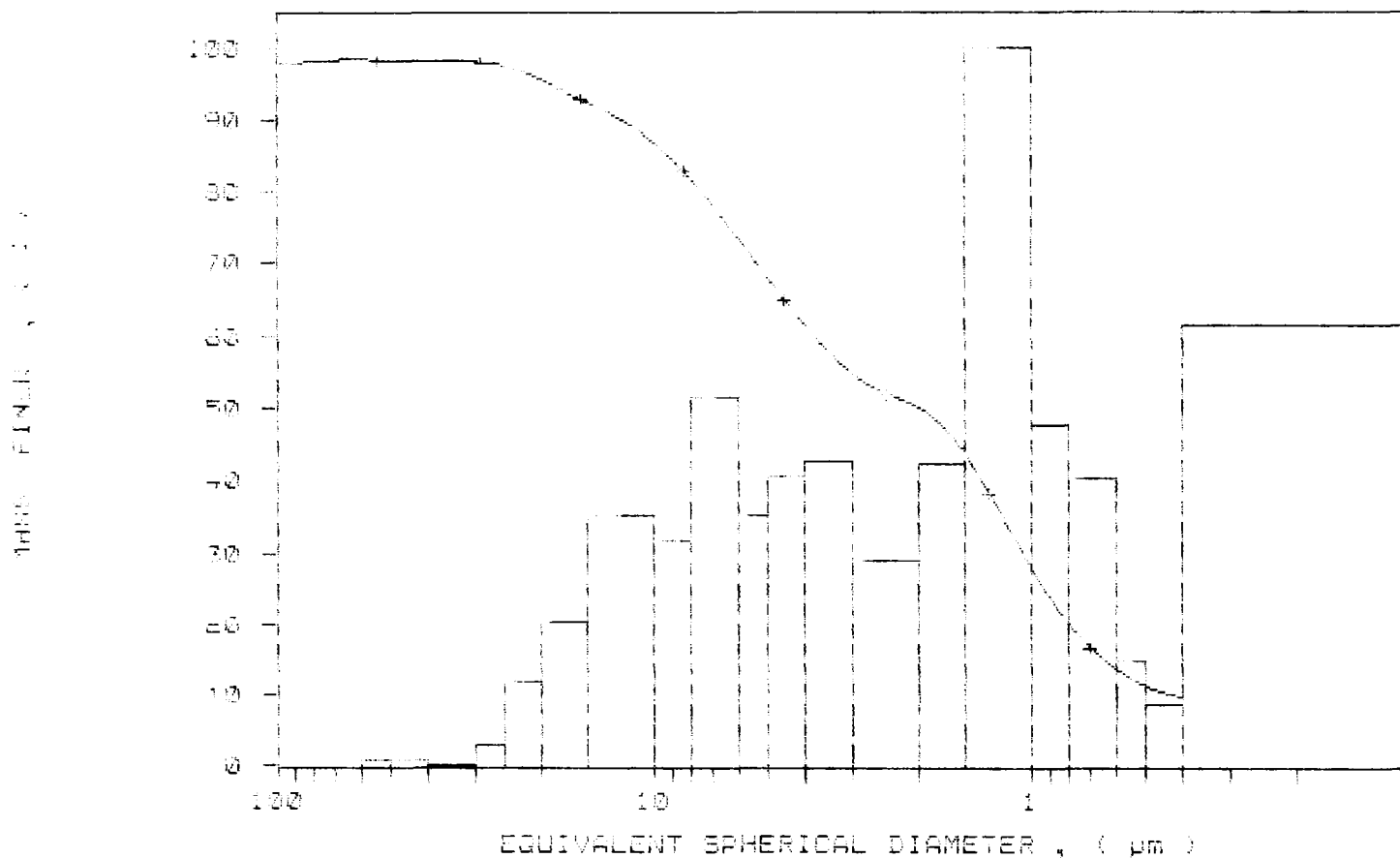
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 97.6                               | 2.4                           |
| 80.00                  | 98.1                               | -0.5                          |
| 60.00                  | 98.3                               | -0.3                          |
| 50.00                  | 98.2                               | 0.2                           |
| 40.00                  | 98.0                               | 0.1                           |
| 30.00                  | 98.0                               | 0.1                           |
| 25.00                  | 97.4                               | 0.5                           |
| 20.00                  | 95.6                               | 1.9                           |
| 15.00                  | 92.3                               | 3.2                           |
| 10.00                  | 86.7                               | 5.6                           |
| 8.00                   | 81.6                               | 5.0                           |
| 6.00                   | 73.4                               | 8.2                           |
| 5.00                   | 67.8                               | 5.6                           |
| 4.00                   | 61.4                               | 6.4                           |
| 3.00                   | 54.6                               | 6.8                           |
| 2.00                   | 50.0                               | 4.6                           |
| 1.50                   | 43.3                               | 6.7                           |
| 1.00                   | 27.5                               | 15.8                          |
| 0.80                   | 19.9                               | 7.6                           |
| 0.60                   | 13.5                               | 6.4                           |
| 0.50                   | 11.1                               | 2.4                           |
| 0.40                   | 9.7                                | 1.4                           |



SAMPLE DIRECTORY/NUMBER: DATA8 /86  
 SAMPLE ID: Hole 92-4 # 16455  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1  
 START 10:37:08 07/04/96  
 REPT 10:45:13 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

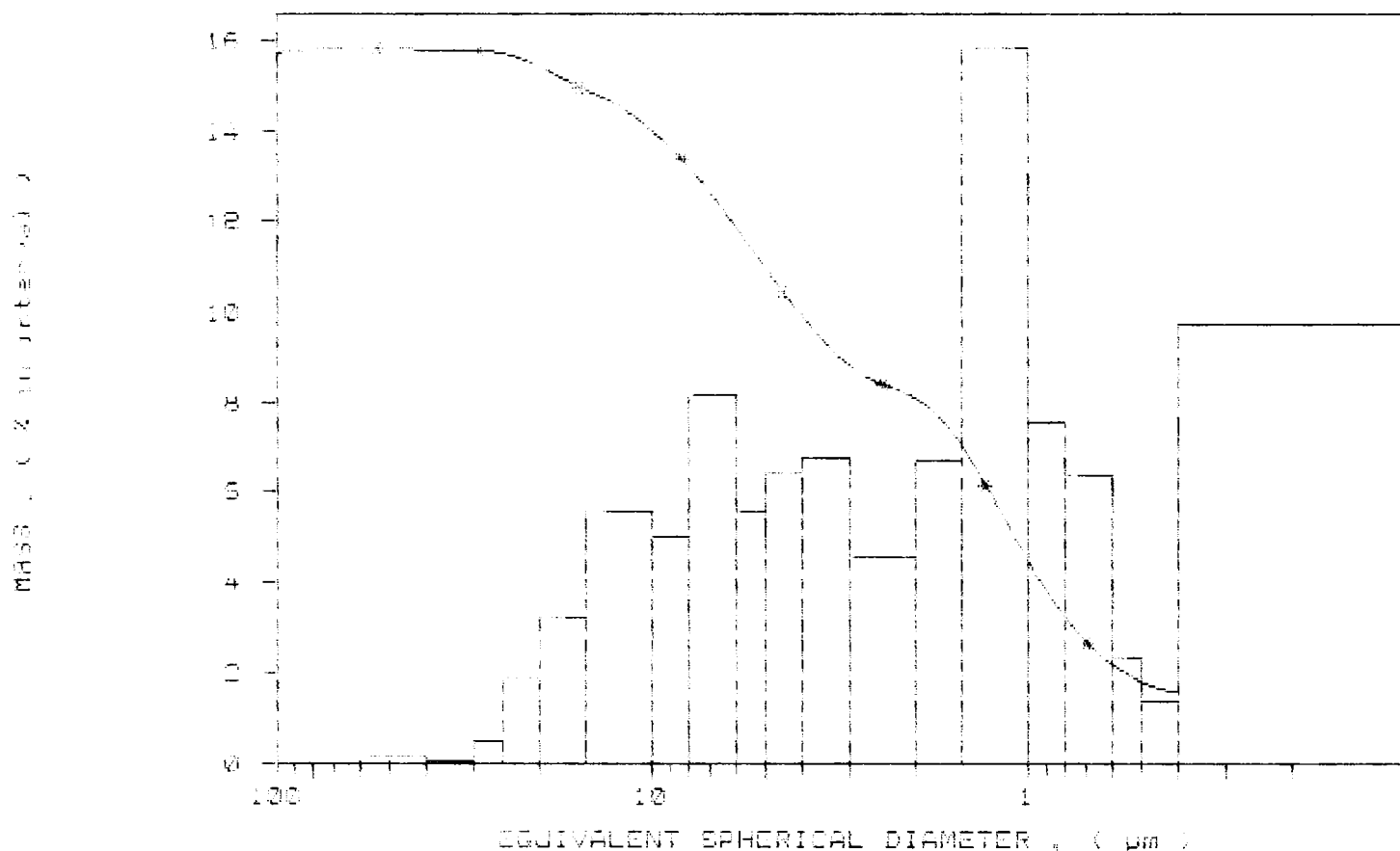
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /86  
 SAMPLE ID: Hole 92-4 # 16455  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 93 kilocounts/sec

UNIT NUMBER: 1  
 START 10:37:08 07/04/96  
 REPT 10:45:13 07/04/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER





SAMPLE DIRECTORY/NUMBER: DATAB /87  
 SAMPLE ID: Hole 92-4 # 16456  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1  
 START 10:57:14 07/04/96  
 REPR 11:05:16 07/04/96  
 TOT RUN TIME 0:07:45  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu\text{m}$   
 ENDING DIAMETER: 0.40  $\mu\text{m}$

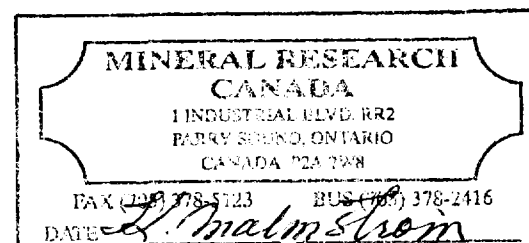
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.89  $\mu\text{m}$

MODAL DIAMETER: 1.09  $\mu\text{m}$

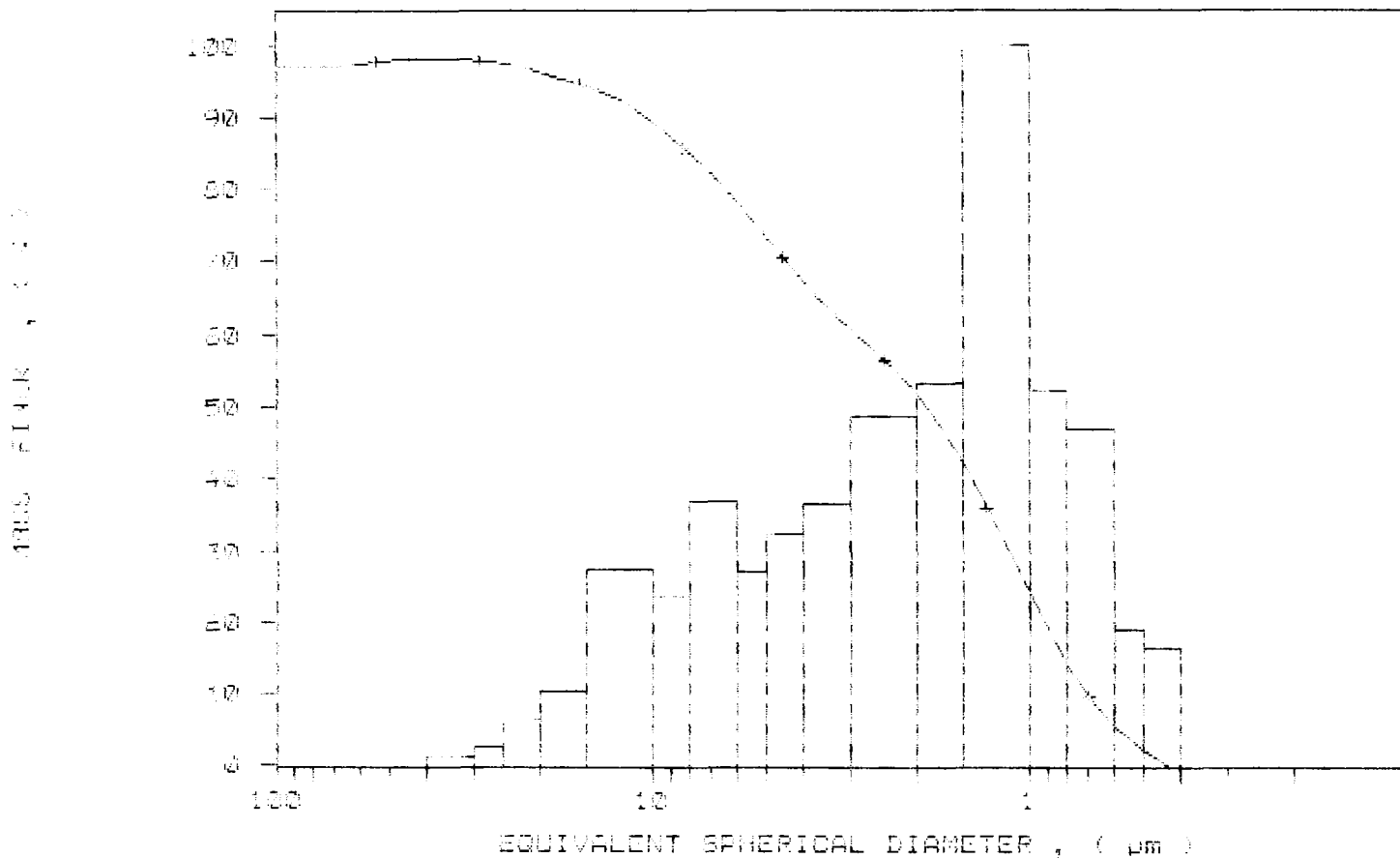
| DIAMETER<br>( $\mu\text{m}$ ) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|-------------------------------|------------------------------------|-------------------------------|
| 100.00                        | 97.0                               | 3.0                           |
| 80.00                         | 97.0                               | -0.0                          |
| 60.00                         | 97.5                               | -0.4                          |
| 50.00                         | 97.9                               | -0.5                          |
| 40.00                         | 98.2                               | -0.3                          |
| 30.00                         | 97.9                               | 0.3                           |
| 25.00                         | 97.4                               | 0.5                           |
| 20.00                         | 96.2                               | 1.2                           |
| 15.00                         | 94.2                               | 2.0                           |
| 10.00                         | 89.2                               | 5.0                           |
| 8.00                          | 85.0                               | 4.3                           |
| 6.00                          | 78.2                               | 6.8                           |
| 5.00                          | 73.2                               | 4.9                           |
| 4.00                          | 67.3                               | 6.0                           |
| 3.00                          | 60.6                               | 6.7                           |
| 2.00                          | 51.7                               | 8.9                           |
| 1.50                          | 41.9                               | 9.7                           |
| 1.00                          | 23.7                               | 18.2                          |
| 0.80                          | 14.2                               | 9.5                           |
| 0.60                          | 5.6                                | 8.6                           |
| 0.50                          | 2.1                                | 3.5                           |
| 0.40                          | -0.9                               | 3.0                           |



SAMPLE DIRECTORY/NUMBER: DATA8 /87  
 SAMPLE ID: Hole 92-4 # 16456  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 89 kilcounts/sec

UNIT NUMBER: 1  
 START 10:57:14 07/04/96  
 REPRT 11:05:16 07/04/96  
 TOT RUN TIME 0:07:45  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

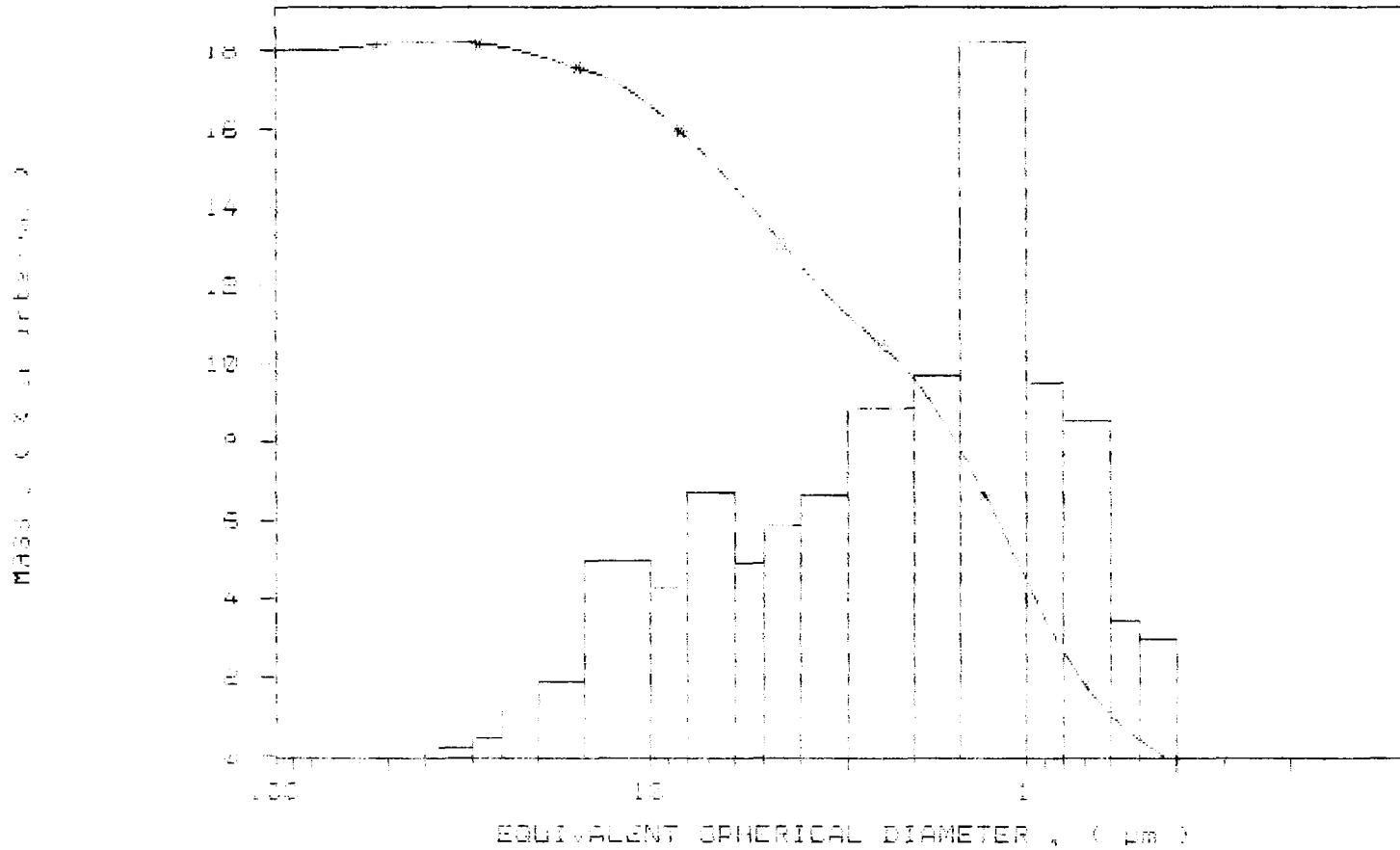
F CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /87  
 SAMPLE ID: Hole 92-4 # 16456  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1  
 START 10:57:14 07/04/96  
 REPT 11:05:16 07/04/96  
 TOT RUN TIME 0:07:45  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /88  
 SAMPLE ID: Hole 92-4 # 16457  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1  
 START 11:20:01 07/04/96  
 REPR 11:27:55 07/04/96  
 TOT RUN TIME 0:07:37  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

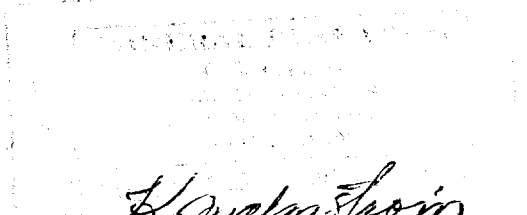
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.05  $\mu$ m

MODAL DIAMETER: 1.19  $\mu$ m

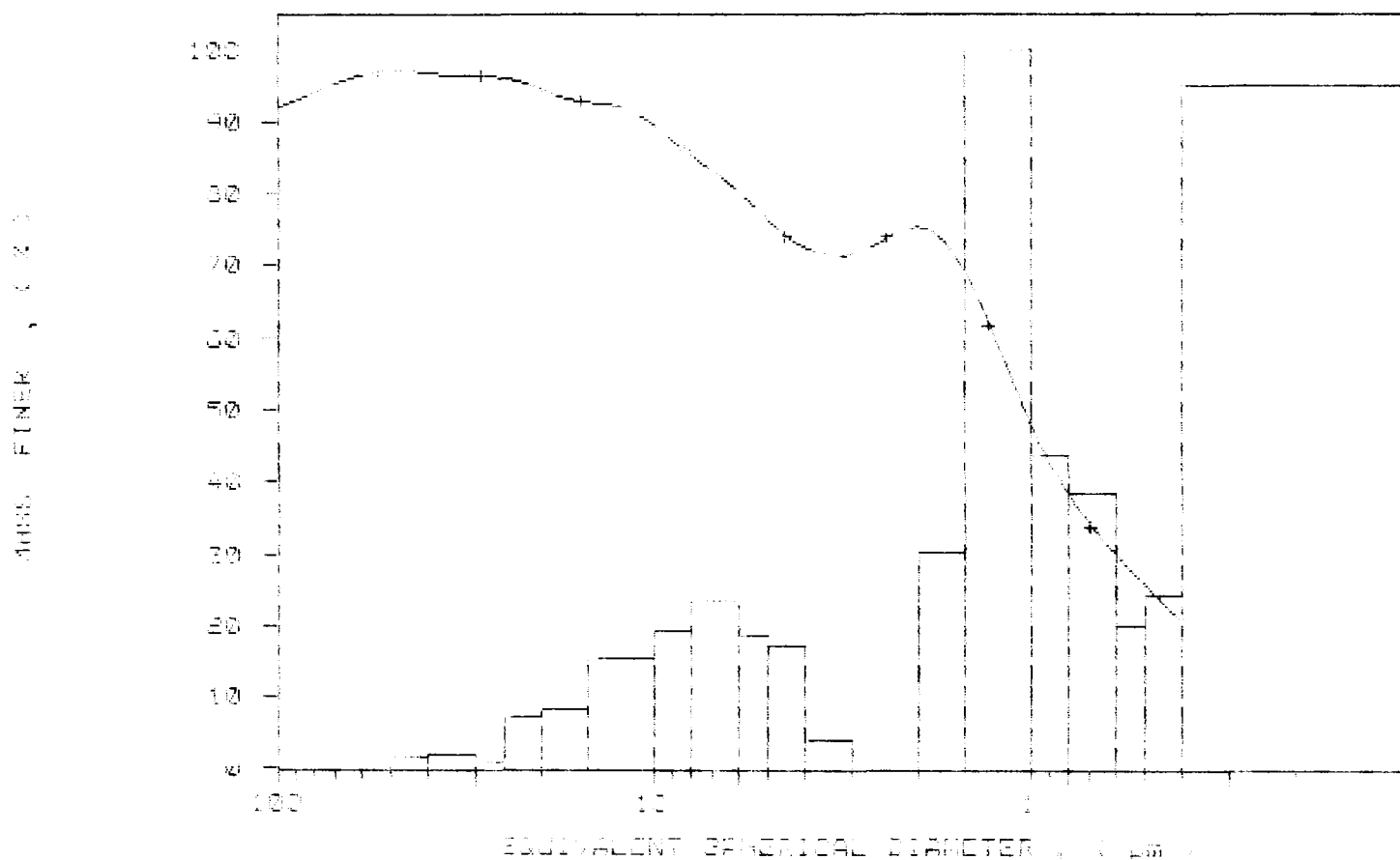
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 92.0                               | 8.0                           |
| 80.00                  | 94.1                               | -2.1                          |
| 60.00                  | 96.5                               | -2.4                          |
| 50.00                  | 97.1                               | -0.6                          |
| 40.00                  | 96.7                               | 0.4                           |
| 30.00                  | 96.3                               | 0.4                           |
| 25.00                  | 96.0                               | 0.2                           |
| 20.00                  | 94.5                               | 1.6                           |
| 15.00                  | 92.7                               | 1.8                           |
| 10.00                  | 89.4                               | 3.3                           |
| 8.00                   | 85.3                               | 4.1                           |
| 6.00                   | 80.2                               | 5.1                           |
| 5.00                   | 76.2                               | 4.0                           |
| 4.00                   | 72.5                               | 3.7                           |
| 3.00                   | 71.6                               | 0.9                           |
| 2.00                   | 75.3                               | -3.7                          |
| 1.50                   | 68.8                               | 6.5                           |
| 1.00                   | 47.4                               | 21.4                          |
| 0.80                   | 38.1                               | 9.3                           |
| 0.60                   | 29.8                               | 8.2                           |
| 0.50                   | 25.5                               | 4.3                           |
| 0.40                   | 20.3                               | 5.2                           |


  
*H. Walmsley*

SAMPLE DIRECTORY/NUMBER: DATAS /88  
 SAMPLE ID: Hole 92-4 # 16457  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1  
 START 11:20:01 07/04/96  
 REPT 11:27:55 07/04/96  
 TOT RUN TIME 0:07:37  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

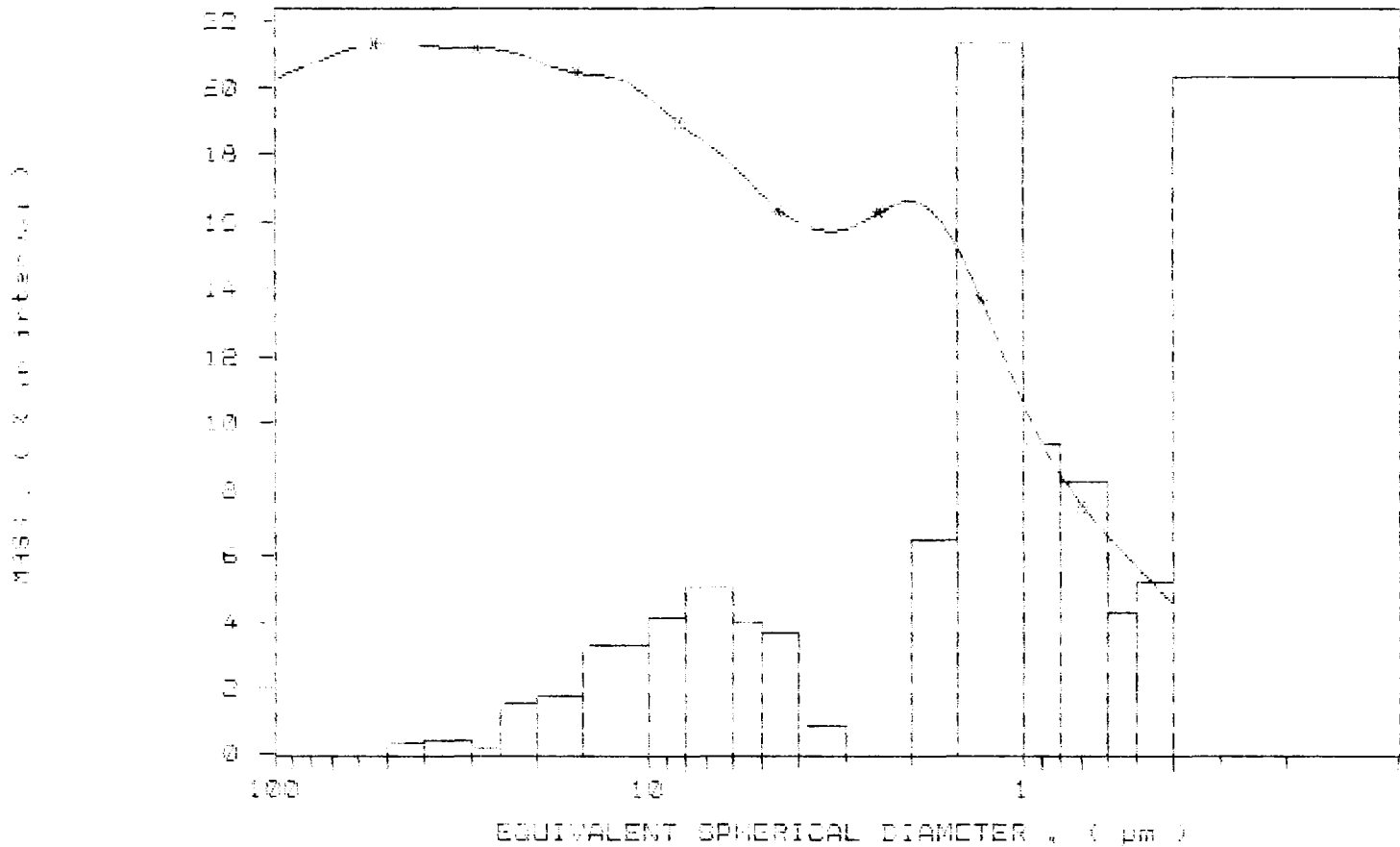
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /88  
SAMPLE ID: Hole 92-4 # 16457  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 108 kilocounts/sec

UNIT NUMBER: 1  
START 11:20:01 07/04/96  
REPRT 11:27:55 07/04/96  
TOT RUN TIME 0:07:37  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7604 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /89  
 SAMPLE ID: Hole 92-4 # 16458  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
 START 11:39:47 07/04/96  
 REPRT 11:47:20 07/04/96  
 TOT RUN TIME 0:07:15  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

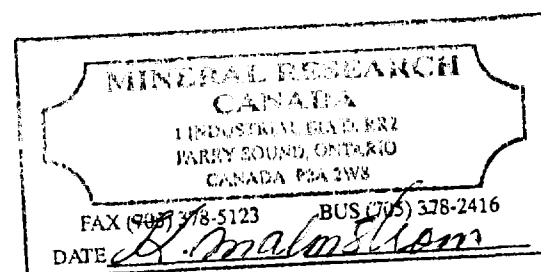
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 3.33  $\mu$ m

MODAL DIAMETER: 5.76  $\mu$ m

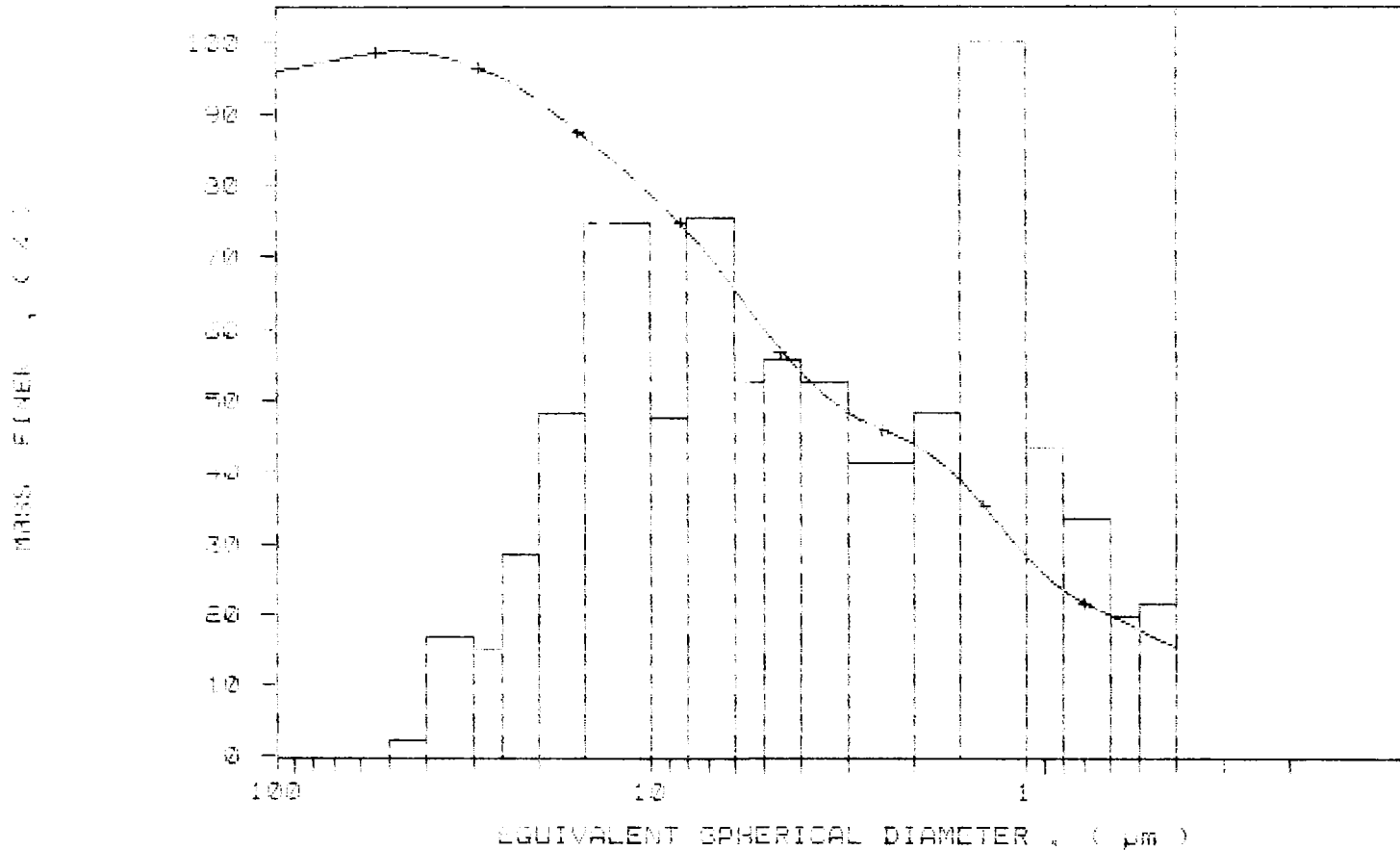
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 95.9                               | 4.1                           |
| 80.00                  | 96.8                               | -0.9                          |
| 60.00                  | 98.1                               | -1.3                          |
| 50.00                  | 98.6                               | -0.5                          |
| 40.00                  | 98.4                               | 0.3                           |
| 30.00                  | 96.6                               | 1.8                           |
| 25.00                  | 94.9                               | 1.6                           |
| 20.00                  | 91.9                               | 3.0                           |
| 15.00                  | 86.7                               | 5.2                           |
| 10.00                  | 78.7                               | 8.0                           |
| 8.00                   | 73.6                               | 5.1                           |
| 6.00                   | 65.5                               | 8.1                           |
| 5.00                   | 59.9                               | 5.6                           |
| 4.00                   | 53.9                               | 6.0                           |
| 3.00                   | 48.2                               | 5.6                           |
| 2.00                   | 43.8                               | 4.4                           |
| 1.50                   | 38.6                               | 5.2                           |
| 1.00                   | 27.9                               | 10.7                          |
| 0.80                   | 23.3                               | 4.6                           |
| 0.60                   | 19.7                               | 3.6                           |
| 0.50                   | 17.6                               | 2.1                           |
| 0.40                   | 15.3                               | 2.3                           |



SAMPLE DIRECTORY/NUMBER: DATAB /89  
 SAMPLE ID: Hole 92-4 # 1645B  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASF LINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
 START 11:39:47 07/04/96  
 REPT 11:47:20 07/04/96  
 TOT RUN TIME 0:07:15  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER

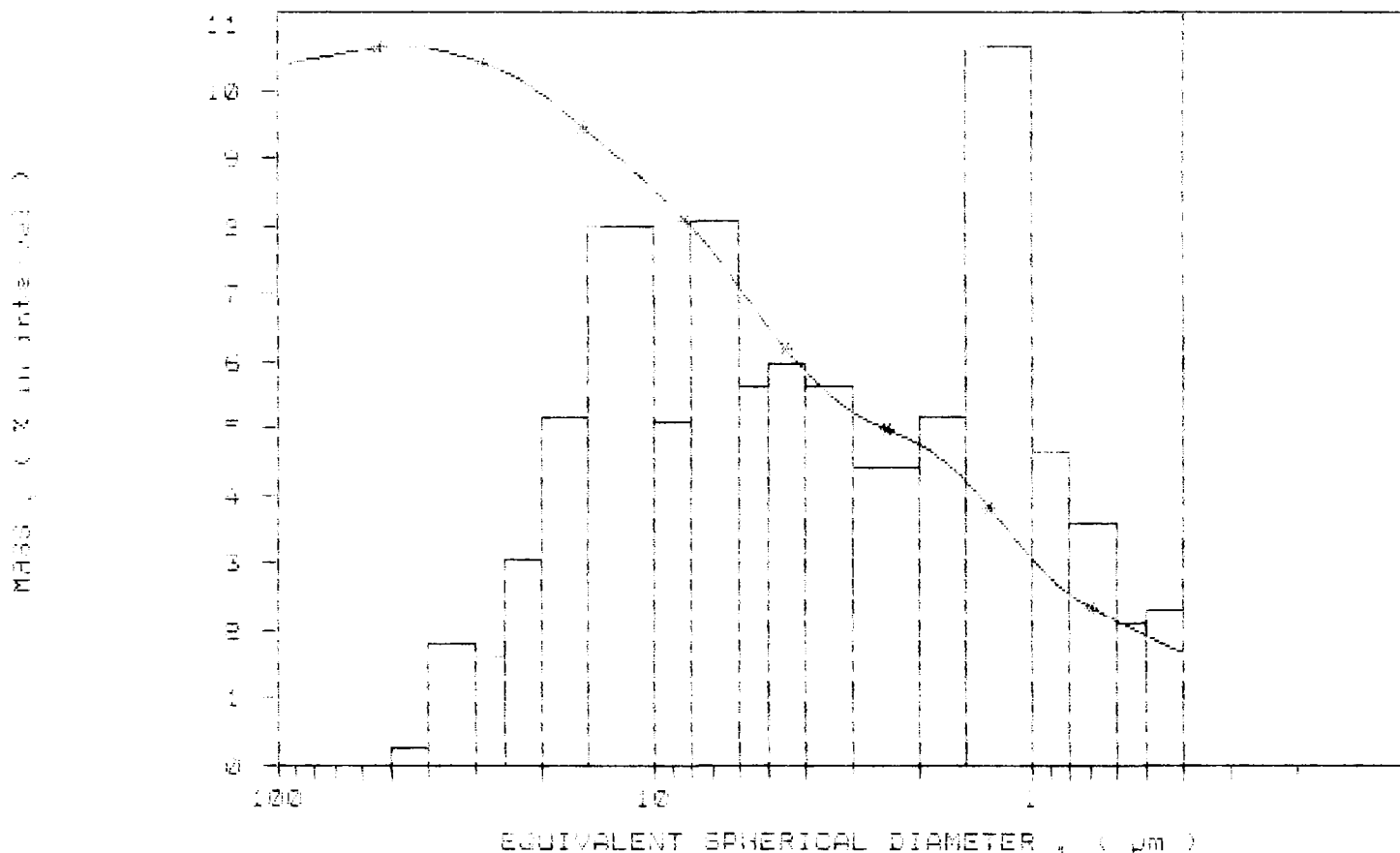




SAMPLE DIRECTORY/NUMBER: DATAB /89  
 SAMPLE ID: Hole 92-4 # 1645B  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
 START 11:39:47 07/04/96  
 REPT 11:47:20 07/04/96  
 TOT RUN TIME 0:07:15  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATAB /90  
 SAMPLE ID: Hole 92-4 # 16459  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

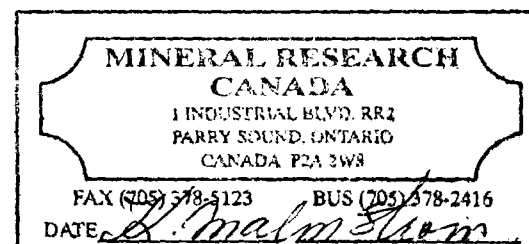
UNIT NUMBER: 1  
 START 11:58:50 07/04/96  
 REPRT 12:06:50 07/04/96  
 TOT RUN TIME 0:07:42  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

MASS DISTRIBUTION  
 MEDIAN DIAMETER: 1.80  $\mu$ m      MODAL DIAMETER: 1.87  $\mu$ m

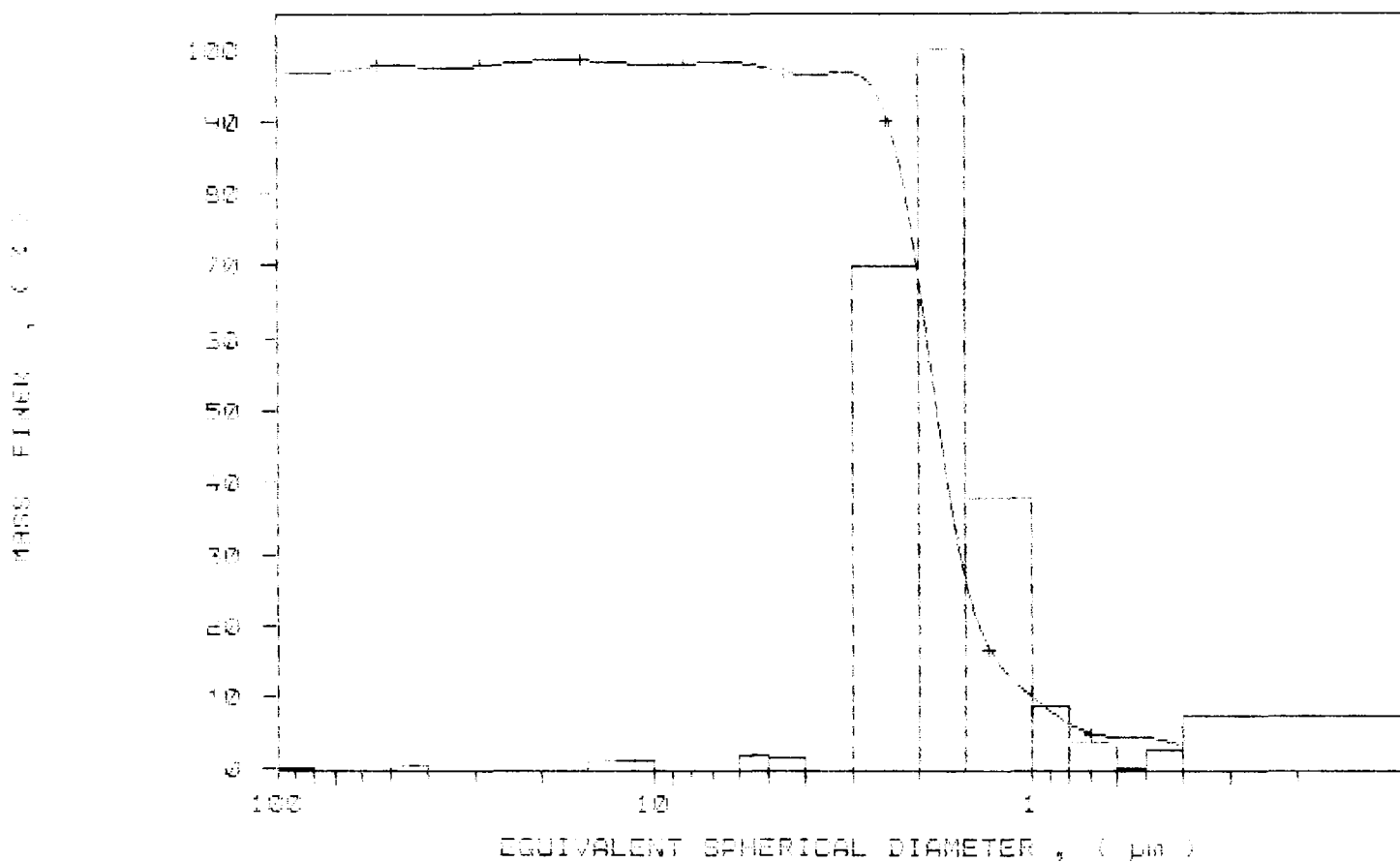
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 96.9                               | 3.1                           |
| 80.00                  | 96.7                               | 0.1                           |
| 60.00                  | 97.4                               | -0.6                          |
| 50.00                  | 97.7                               | -0.3                          |
| 40.00                  | 97.5                               | 0.2                           |
| 30.00                  | 97.6                               | -0.1                          |
| 25.00                  | 98.0                               | -0.4                          |
| 20.00                  | 98.4                               | -0.4                          |
| 15.00                  | 98.3                               | 0.0                           |
| 10.00                  | 97.7                               | 0.6                           |
| 8.00                   | 97.9                               | -0.2                          |
| 6.00                   | 98.0                               | -0.2                          |
| 5.00                   | 97.7                               | 0.8                           |
| 4.00                   | 96.4                               | 0.8                           |
| 3.00                   | 96.6                               | -0.2                          |
| 2.00                   | 67.3                               | 29.3                          |
| 1.50                   | 25.6                               | 41.7                          |
| 1.00                   | 9.8                                | 15.8                          |
| 0.80                   | 6.1                                | 3.7                           |
| 0.60                   | 4.5                                | 1.6                           |
| 0.50                   | 4.4                                | 0.1                           |
| 0.40                   | 3.1                                | 1.2                           |



SAMPLE DIRECTORY/NUMBER: DATAB /90  
 SAMPLE ID: Hole 92-4 # 16459  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASLINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 11:58:50 07/04/96  
 REPT 12:06:50 07/04/96  
 TOT RUN TIME 0:07:42  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

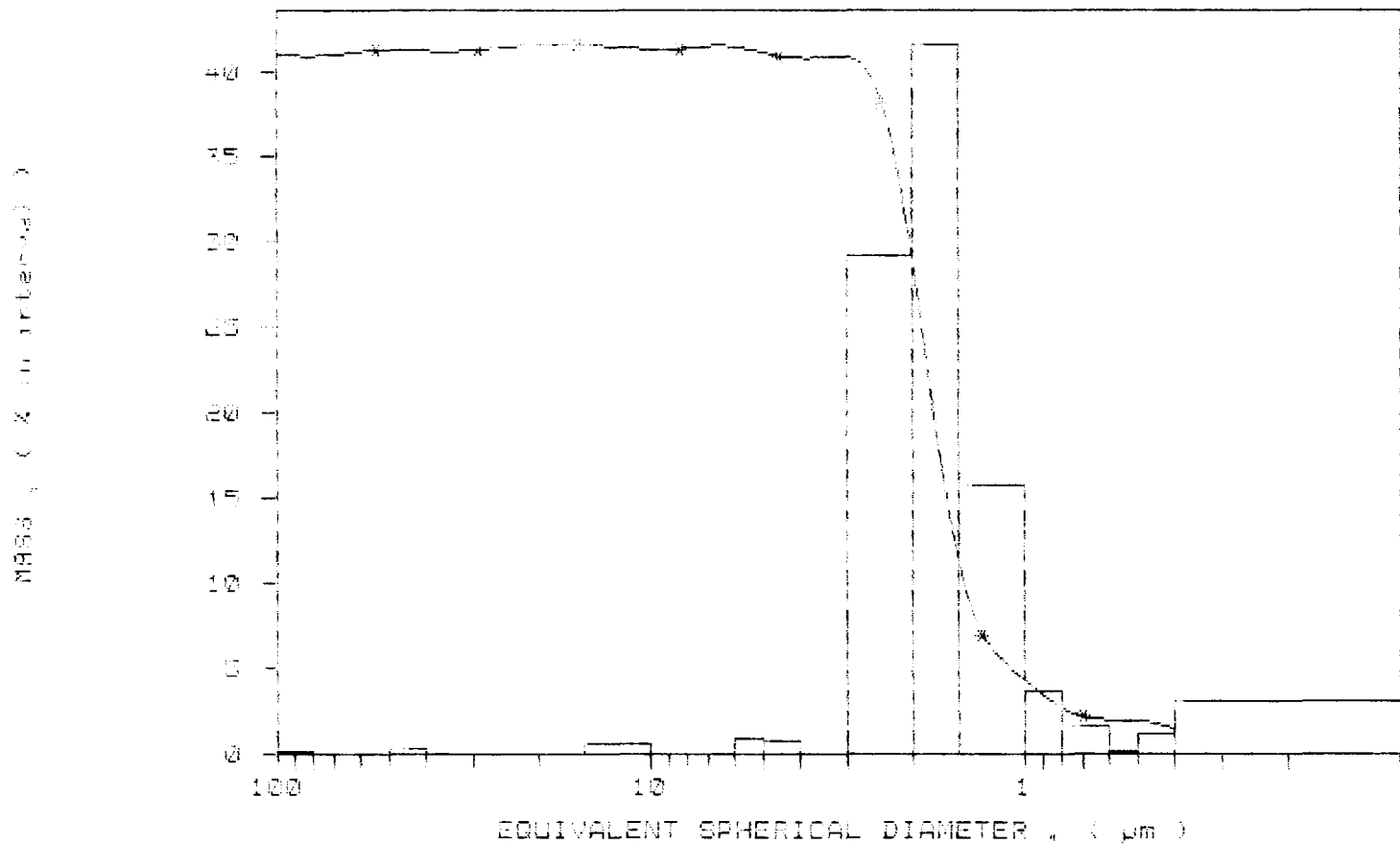
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAR /90  
SAMPLE ID: Hole 92-4 # 16459  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
START 11:58:50 07/04/96  
REPRT 12:06:50 07/04/96  
TOT RUN TIME 0:07:42  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7604 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

Hole 92-4 # 16460

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAB /91  
SAMPLE ID: Hole 92-4 # 16460  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

UNIT NUMBER: 1  
START 12:38:55 07/04/96  
REPRT 12:46:50 07/04/96  
TOT RUN TIME 0:07:37  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7605 cp  
RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
ENDING DIAMETER: 0.40  $\mu$ m

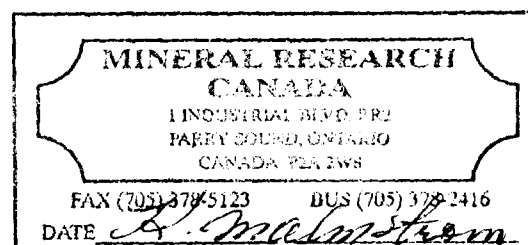
REYNOLDS NUMBER: 1.50  
FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.68  $\mu$ m

MASS DISTRIBUTION

MODAL DIAMETER: 1.38  $\mu$ m

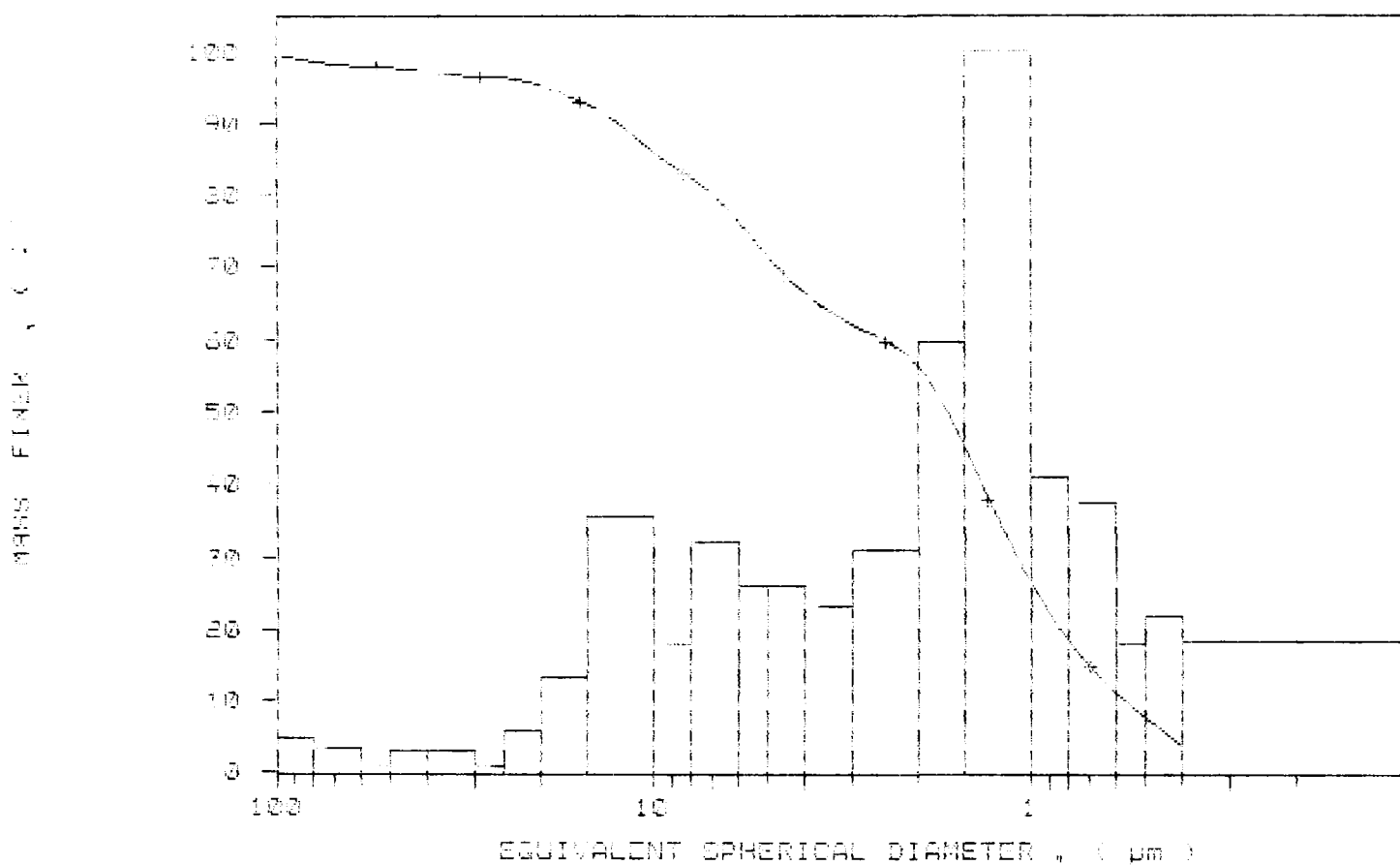
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 99.5                               | 0.5                           |
| 80.00                  | 98.5                               | 1.0                           |
| 60.00                  | 97.9                               | 0.7                           |
| 50.00                  | 97.6                               | 0.2                           |
| 40.00                  | 97.0                               | 0.6                           |
| 30.00                  | 96.5                               | 0.6                           |
| 25.00                  | 96.3                               | 0.2                           |
| 20.00                  | 95.1                               | 1.1                           |
| 15.00                  | 92.6                               | 2.5                           |
| 10.00                  | 85.8                               | 6.8                           |
| 8.00                   | 82.4                               | 3.4                           |
| 6.00                   | 76.3                               | 6.1                           |
| 5.00                   | 71.4                               | 5.0                           |
| 4.00                   | 66.4                               | 5.0                           |
| 3.00                   | 62.0                               | 4.4                           |
| 2.00                   | 56.1                               | 5.9                           |
| 1.50                   | 44.8                               | 11.3                          |
| 1.00                   | 25.9                               | 18.9                          |
| 0.80                   | 18.1                               | 7.7                           |
| 0.60                   | 11.0                               | 7.1                           |
| 0.50                   | 7.6                                | 3.4                           |
| 0.40                   | 3.5                                | 4.2                           |



SAMPLE DIRECTORY/NUMBFR: DATAB /91  
 SAMPLE ID: Hole 92-4 # 16460  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

UNIT NUMBER: 1  
 START 12:38:55 07/04/96  
 REPR 12:46:50 07/04/96  
 TOT RUN TIME 0:07:37  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

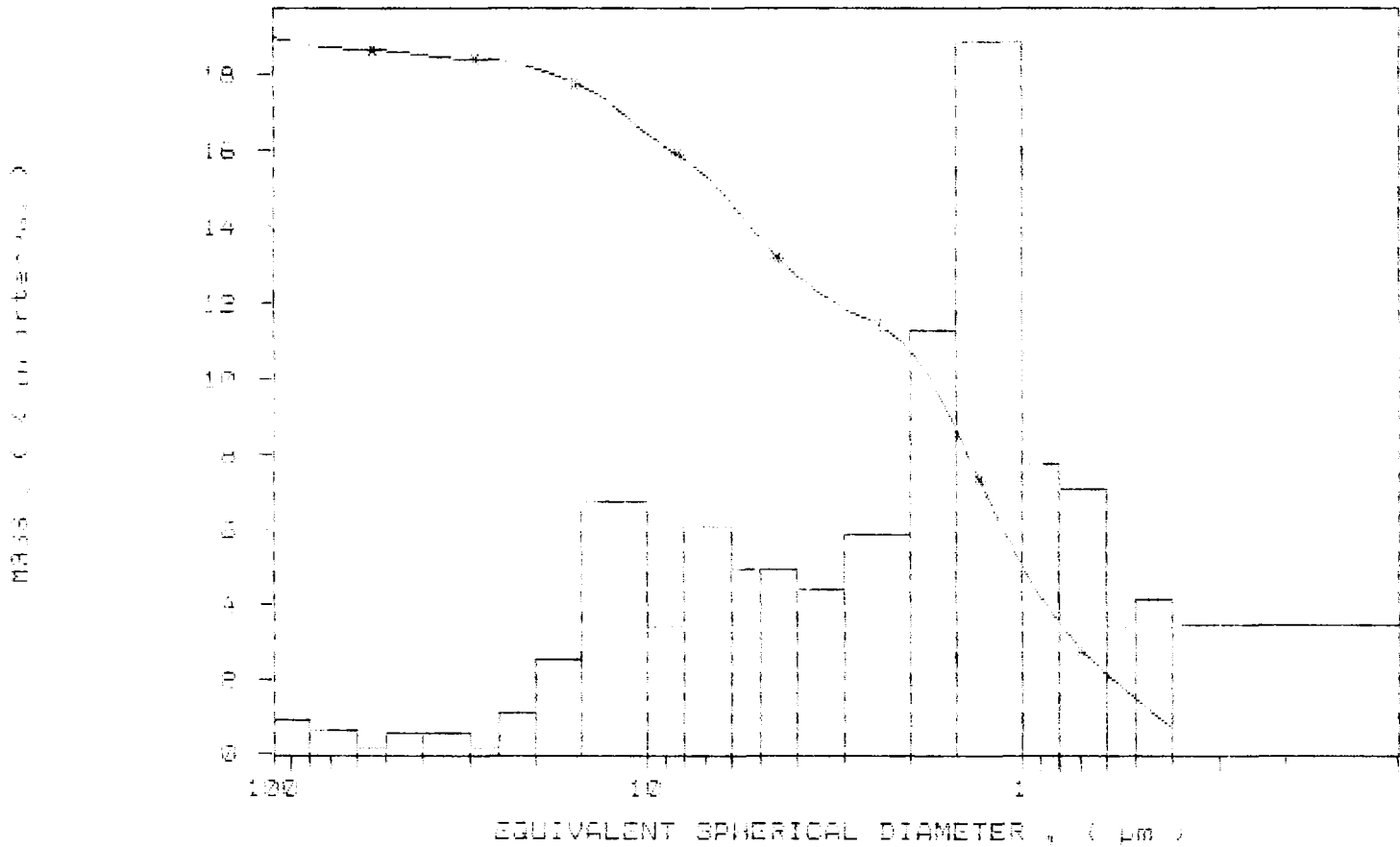
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /91  
 SAMPLE ID: Hole 92-4 # 16460  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 94 kilocounts/sec

UNIT NUMBER: 1  
 START 12:38:55 07/04/96  
 REPT 12:46:50 07/04/96  
 TOT RUN TIME 0:07:37  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /92  
 SAMPLE ID: Hole 92-4 # 16461  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 13:04:27 07/04/96  
 REPR 13:12:25 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

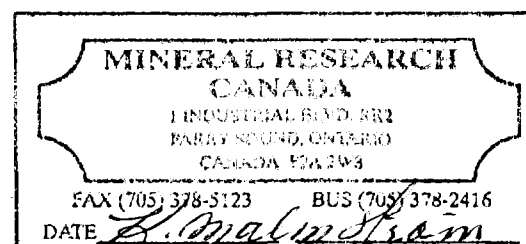
RFYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.24  $\mu$ m

MODAL DIAMETER: 1.21  $\mu$ m

| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 96.6                               | 3.4                           |
| 80.00                  | 96.9                               | -0.3                          |
| 60.00                  | 97.2                               | -0.3                          |
| 50.00                  | 97.3                               | -0.1                          |
| 40.00                  | 97.2                               | 0.1                           |
| 30.00                  | 96.5                               | 0.7                           |
| 25.00                  | 95.8                               | 0.8                           |
| 20.00                  | 94.7                               | 1.1                           |
| 15.00                  | 92.9                               | 1.8                           |
| 10.00                  | 88.9                               | 4.0                           |
| 8.00                   | 84.9                               | 4.0                           |
| 6.00                   | 79.0                               | 5.9                           |
| 5.00                   | 74.8                               | 4.1                           |
| 4.00                   | 70.0                               | 4.8                           |
| 3.00                   | 65.4                               | 4.6                           |
| 2.00                   | 61.4                               | 4.0                           |
| 1.50                   | 55.5                               | 5.9                           |
| 1.00                   | 43.4                               | 12.1                          |
| 0.80                   | 37.3                               | 6.2                           |
| 0.60                   | 29.8                               | 7.4                           |
| 0.50                   | 24.9                               | 5.0                           |
| 0.40                   | 19.0                               | 5.9                           |

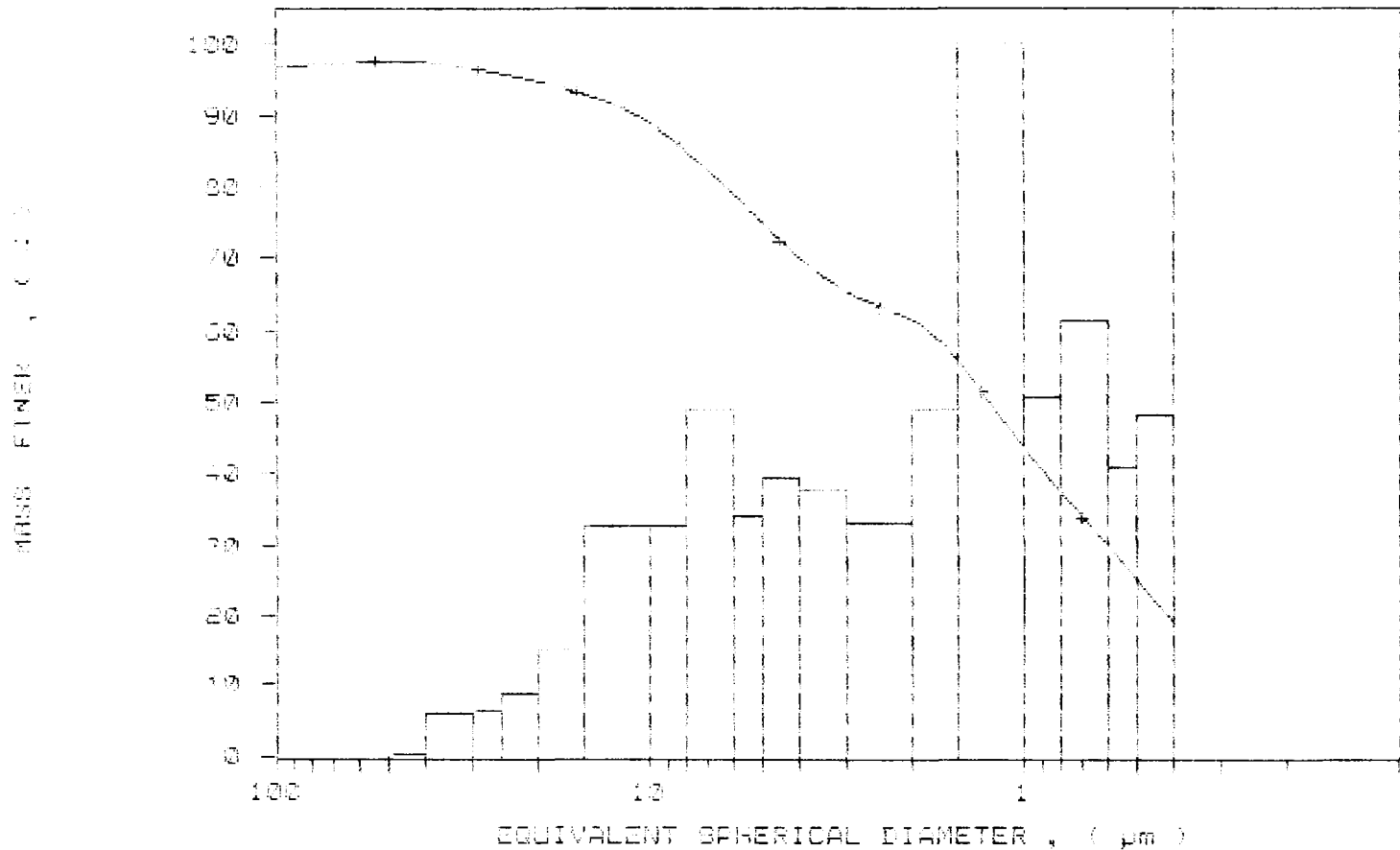




SAMPLE DIRECTORY/NUMBER: DATAB /92  
 SAMPLE ID: Hole 92-4 # 16461  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 13:04:27 07/04/96  
 REPT 13:12:25 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

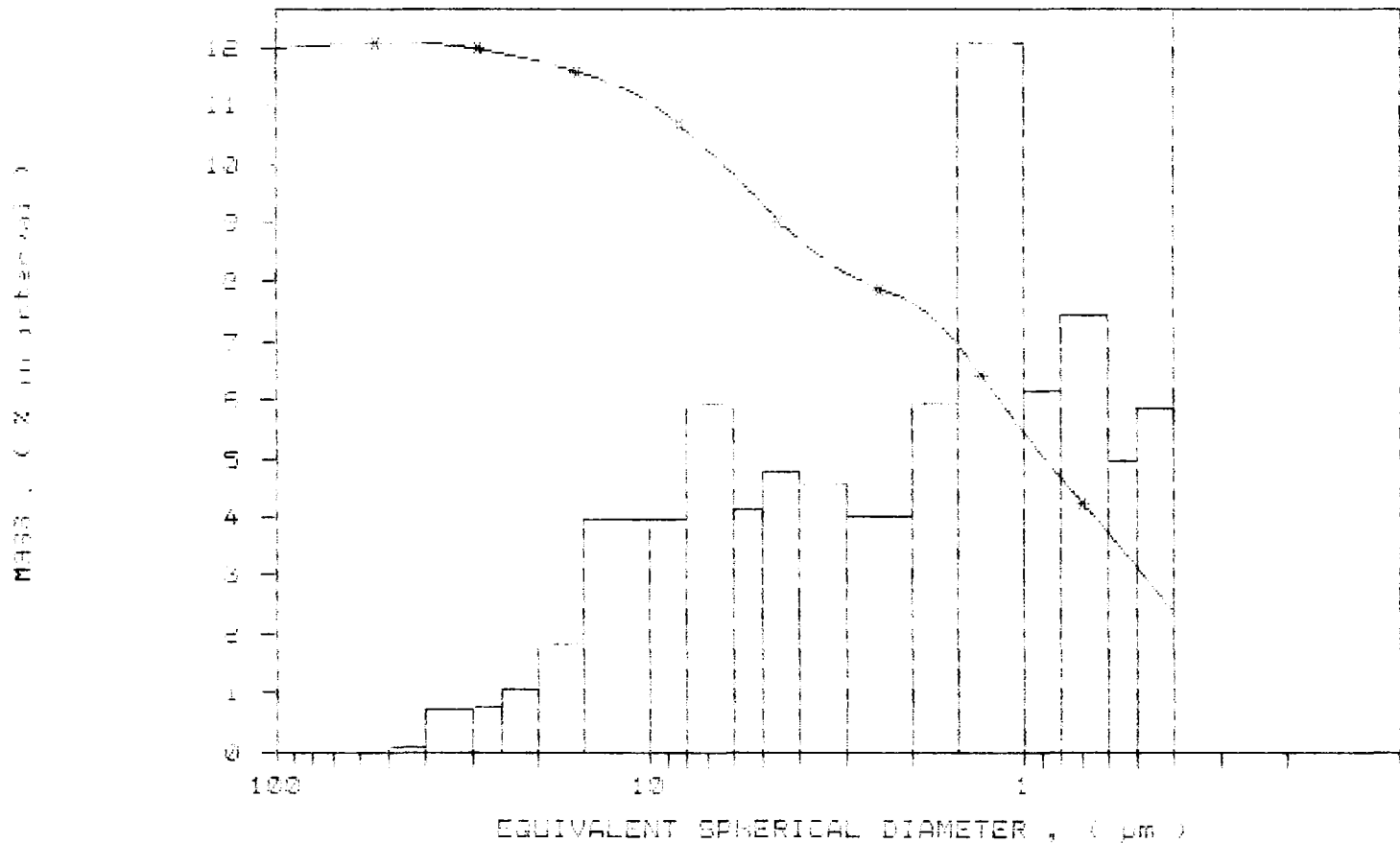
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /92  
 SAMPLE ID: Hole 92-4 # 16461  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 13:04:27 07/04/96  
 REPT 13:12:25 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /93  
 SAMPLE ID: Hole 92-4 # 16462  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1  
 START 13:24:07 07/04/96  
 REPR 13:32:05 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu\text{m}$   
 ENDING DIAMETER: 0.40  $\mu\text{m}$

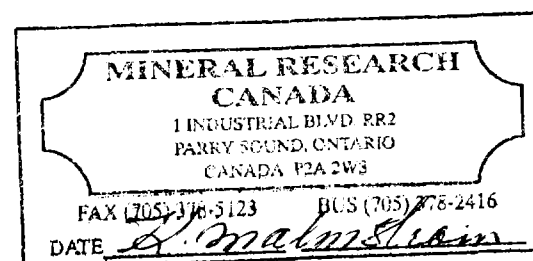
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.62  $\mu\text{m}$

MODAL DIAMETER: 0.40  $\mu\text{m}$

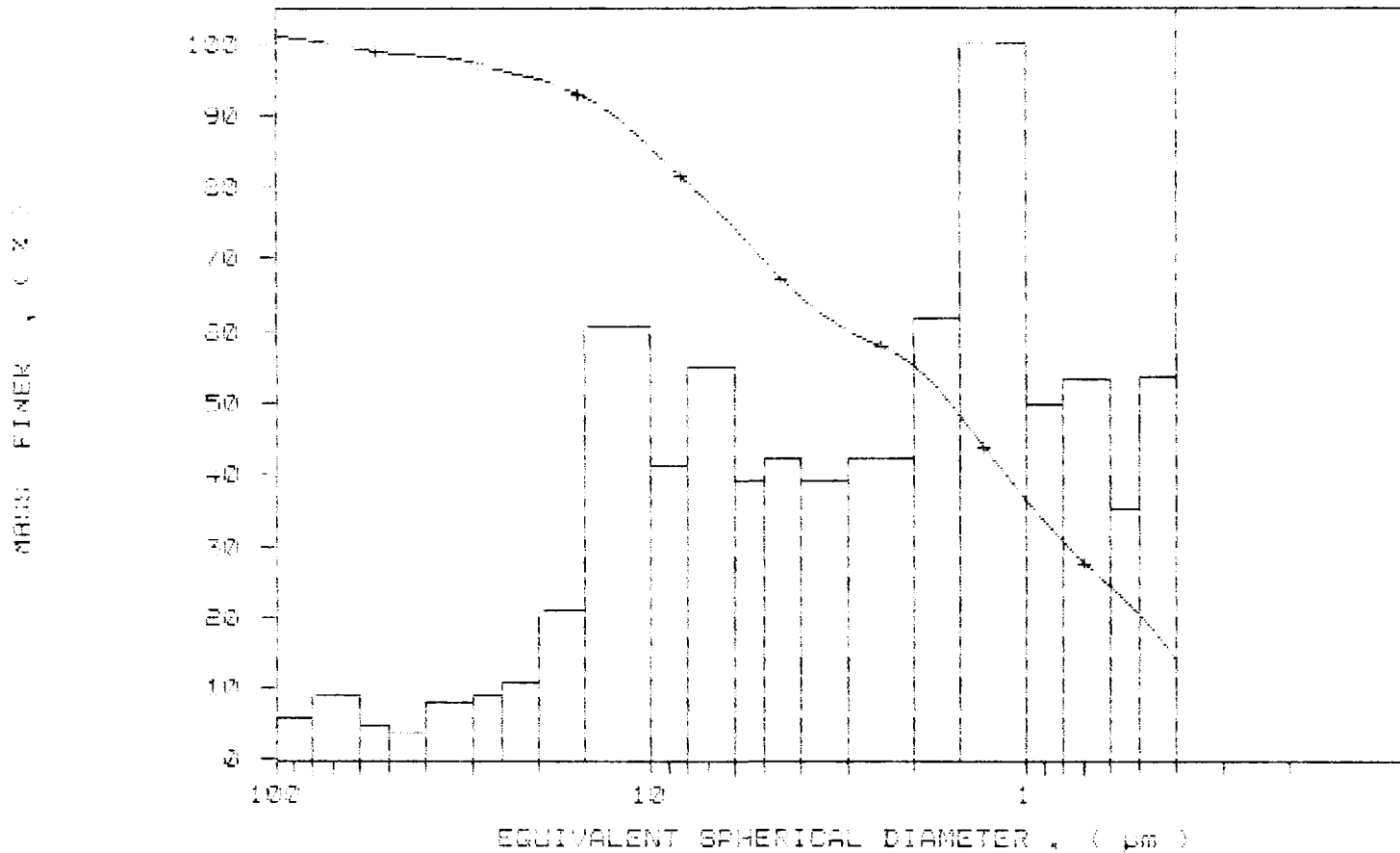
| DIAMETER<br>( $\mu\text{m}$ ) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|-------------------------------|------------------------------------|-------------------------------|
| 100.00                        | 101.0                              | -1.0                          |
| 80.00                         | 100.3                              | 0.7                           |
| 60.00                         | 99.2                               | 1.1                           |
| 50.00                         | 98.6                               | 0.6                           |
| 40.00                         | 98.2                               | 0.4                           |
| 30.00                         | 97.3                               | 0.9                           |
| 25.00                         | 96.2                               | 1.1                           |
| 20.00                         | 94.9                               | 1.3                           |
| 15.00                         | 92.4                               | 2.5                           |
| 10.00                         | 85.4                               | 7.1                           |
| 8.00                          | 80.5                               | 4.8                           |
| 6.00                          | 74.1                               | 6.4                           |
| 5.00                          | 69.6                               | 4.6                           |
| 4.00                          | 64.6                               | 5.0                           |
| 3.00                          | 60.0                               | 4.6                           |
| 2.00                          | 55.1                               | 4.9                           |
| 1.50                          | 47.9                               | 7.2                           |
| 1.00                          | 36.2                               | 11.7                          |
| 0.80                          | 30.4                               | 5.8                           |
| 0.60                          | 24.7                               | 6.2                           |
| 0.50                          | 20.1                               | 4.1                           |
| 0.40                          | 13.8                               | 6.3                           |



SAMPLE DIRECTORY/NUMBER: DATAB /93  
 SAMPLE ID: Hole 92-4 # 16462  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1  
 START 13:24:07 07/04/96  
 REPT 13:32:05 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

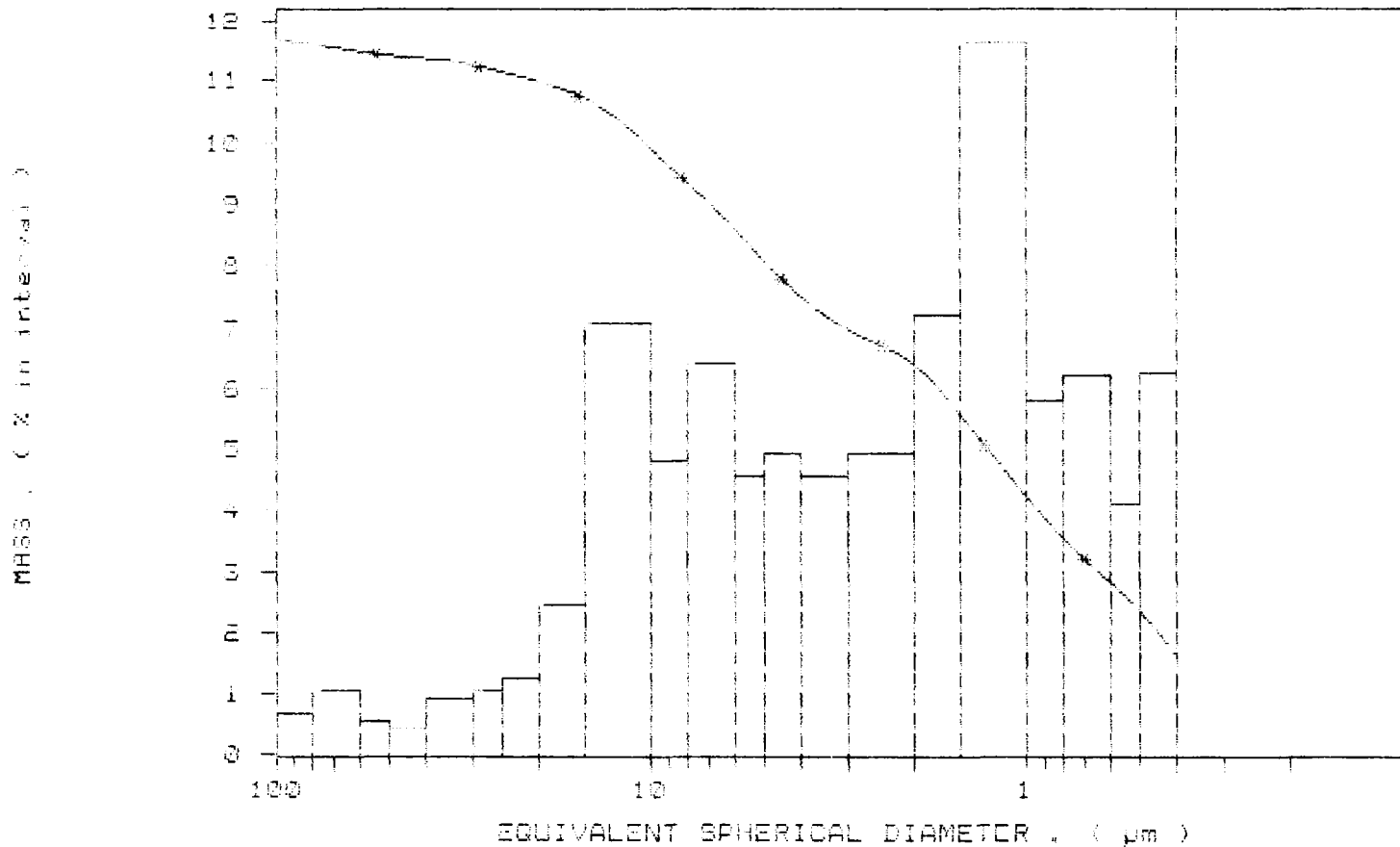
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /93  
SAMPLE ID: Hole 92-4 # 16462  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASFLINE/FULL SCALE: 124/ 89 kilocounts/sec

UNIT NUMBER: 1  
START 13:24:07 07/04/96  
REPRT 13:32:05 07/04/96  
TOT RUN TIME 0:07:41  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7603 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /94  
 SAMPLE ID: Hole 92-4 # 16463  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 13:44:31 07/04/96  
 REPT 13:52:27 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

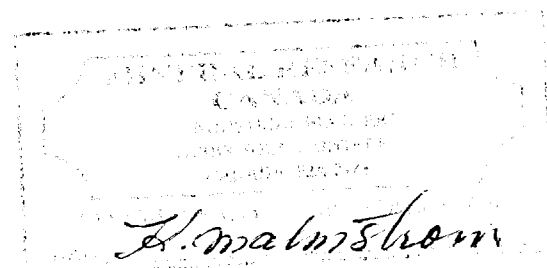
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.19  $\mu$ m

MODAL DIAMETER: 1.04  $\mu$ m

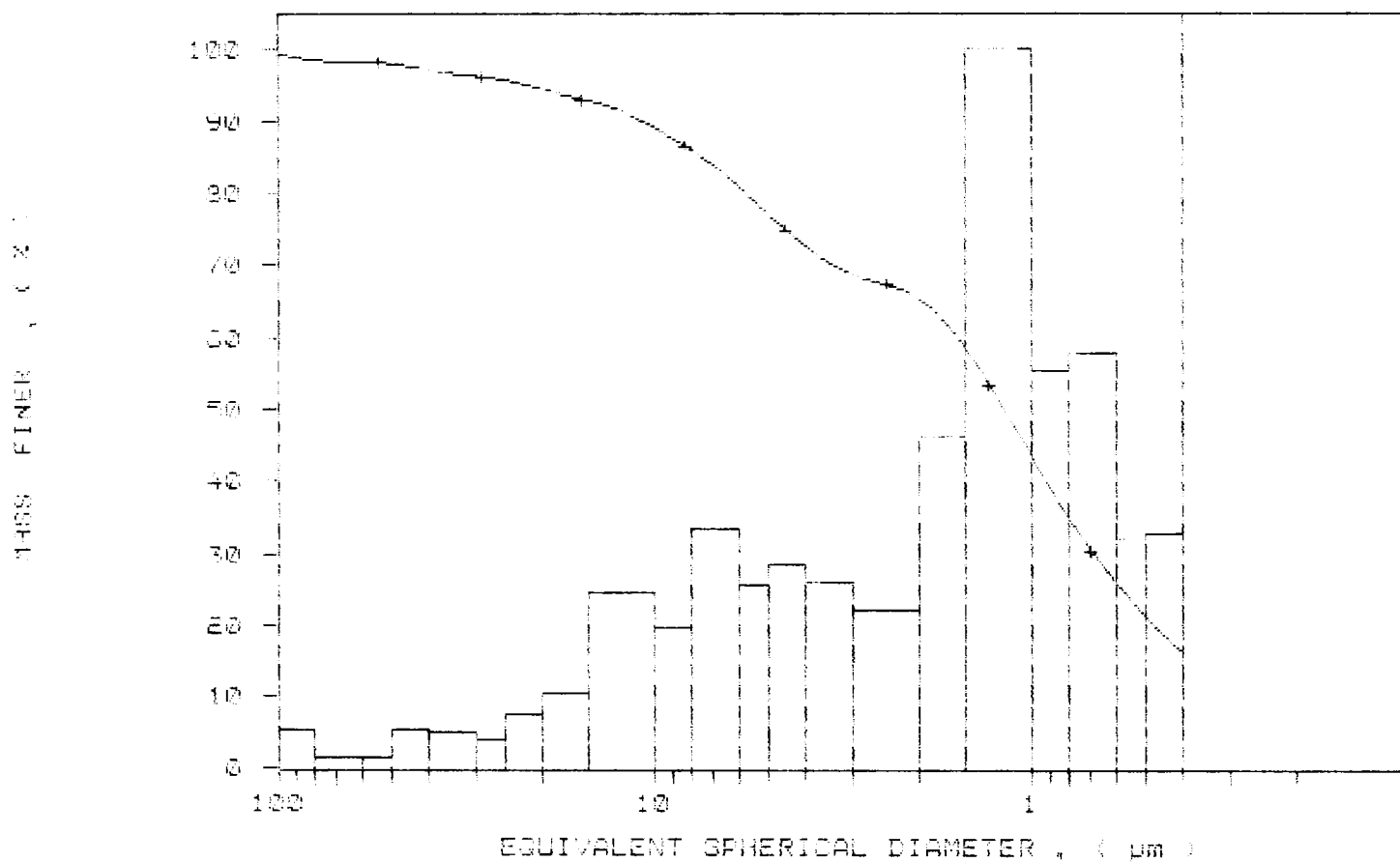
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 99.3                               | 0.7                           |
| 80.00                  | 98.4                               | 0.8                           |
| 60.00                  | 98.1                               | 0.3                           |
| 50.00                  | 97.9                               | 0.3                           |
| 40.00                  | 97.0                               | 0.8                           |
| 30.00                  | 96.2                               | 0.8                           |
| 25.00                  | 95.6                               | 0.6                           |
| 20.00                  | 94.4                               | 1.2                           |
| 15.00                  | 92.7                               | 1.6                           |
| 10.00                  | 89.0                               | 3.8                           |
| 8.00                   | 86.0                               | 3.0                           |
| 6.00                   | 80.9                               | 5.1                           |
| 5.00                   | 76.9                               | 3.9                           |
| 4.00                   | 72.6                               | 4.3                           |
| 3.00                   | 68.7                               | 3.9                           |
| 2.00                   | 65.3                               | 3.4                           |
| 1.50                   | 58.2                               | 7.0                           |
| 1.00                   | 43.1                               | 15.2                          |
| 0.80                   | 34.6                               | 8.4                           |
| 0.60                   | 25.9                               | 8.8                           |
| 0.50                   | 21.0                               | 4.9                           |
| 0.40                   | 16.0                               | 5.0                           |



SAMPLE DIRECTORY/NUMBER: DATAR /94  
 SAMPLE ID: Hole 92-4 # 16463  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 13:44:31 07/04/96  
 REPRT 13:52:27 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

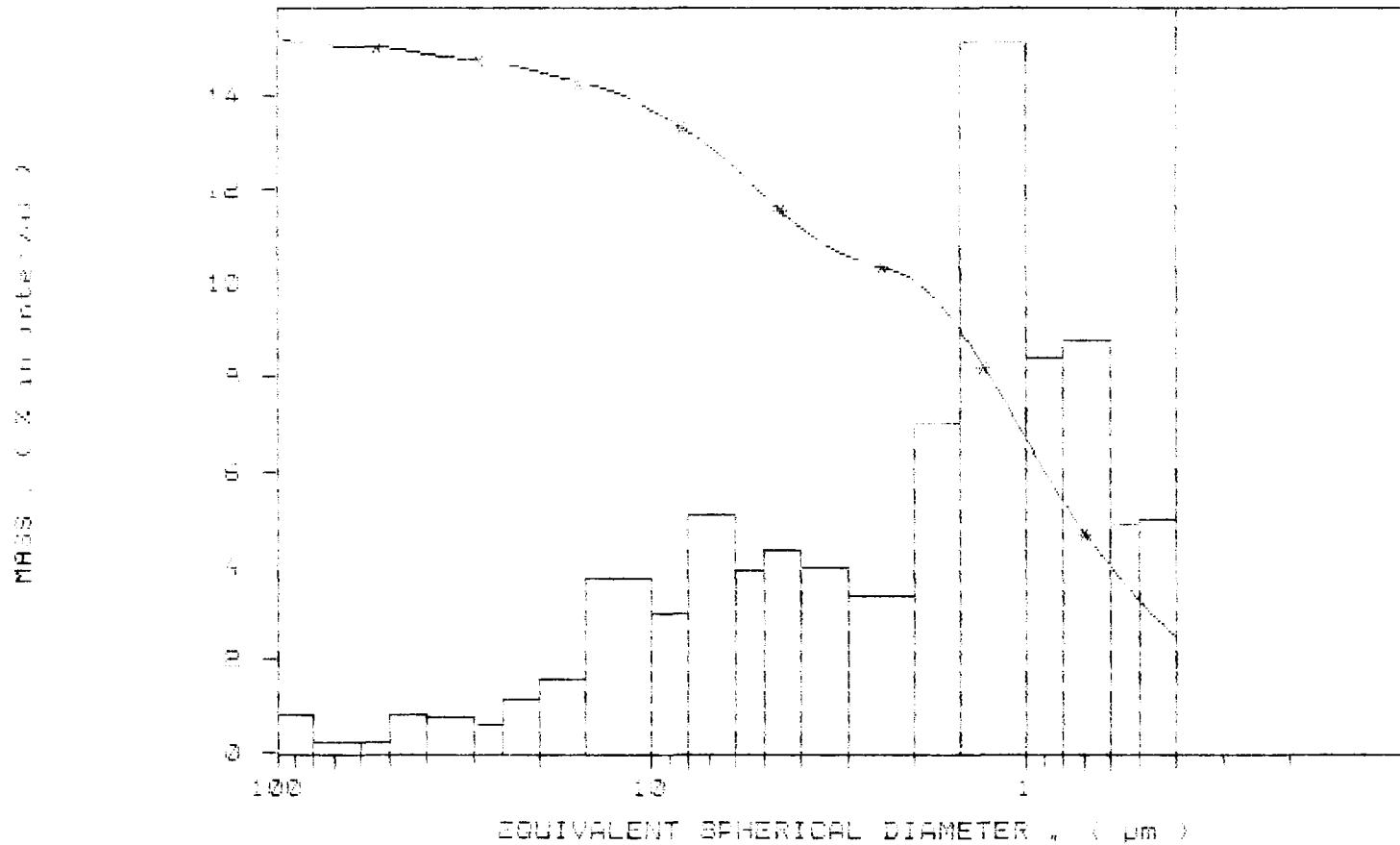
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAR /94  
 SAMPLE ID: Hole 92-4 # 16463  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASFLINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 13:44:31 07/04/96  
 REPT 13:52:27 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER





SAMPLE DIRECTORY/NUMBER: DATAB /95  
 SAMPLE ID: Hole 92-4 # 16464  
 SUBMITTER: MRC INC.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 87 kilocounts/sec

UNIT NUMBER: 1  
 START 14:05:30 07/04/96  
 REPR 14:13:28 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

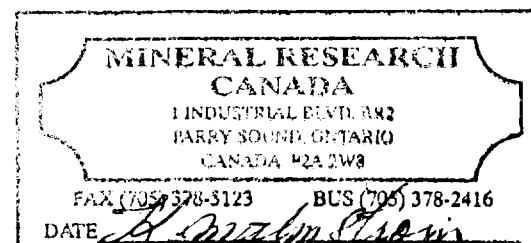
STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

RFYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.34  $\mu$ m MODAL DIAMETER: 0.68  $\mu$ m

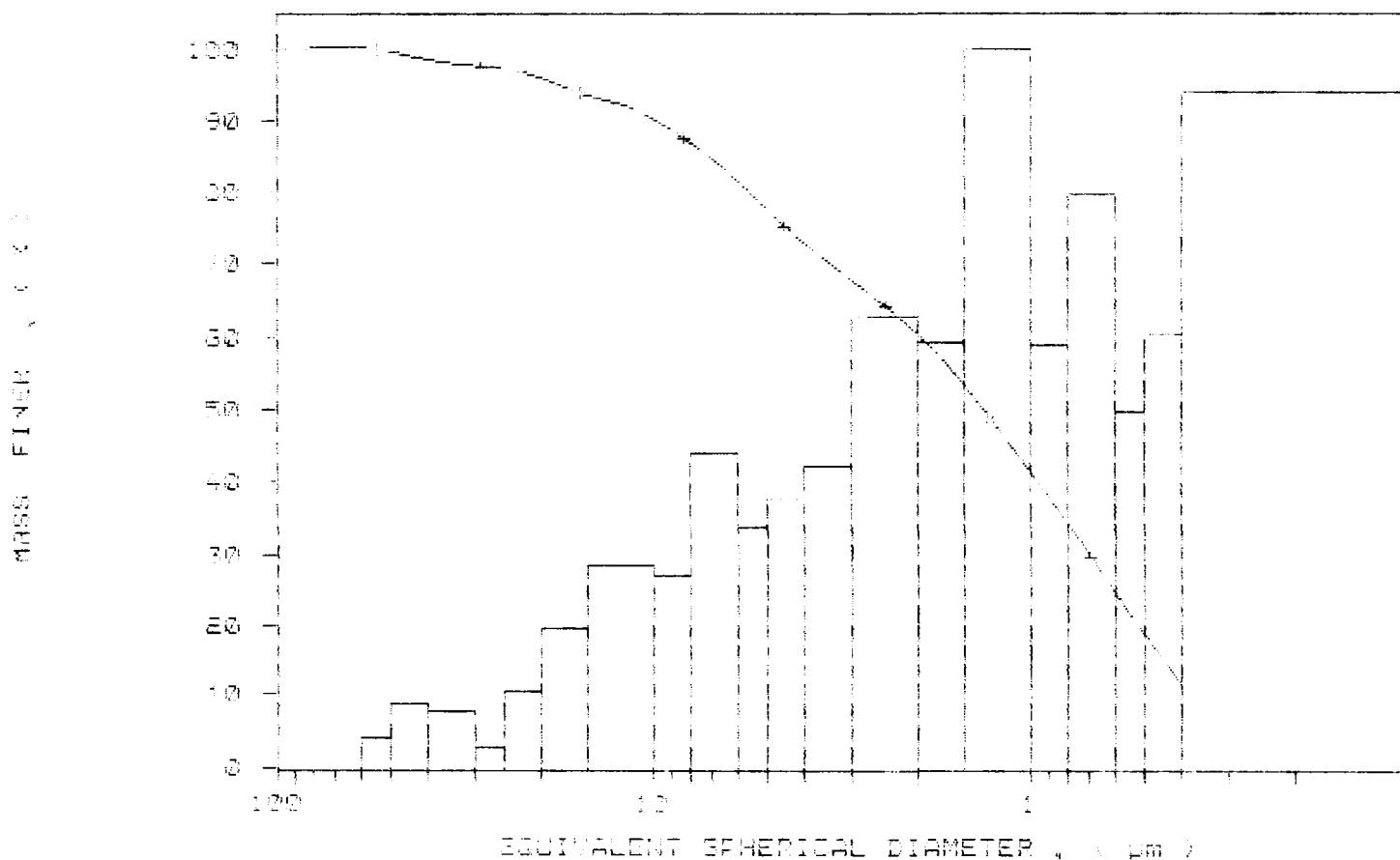
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 99.9                               | 0.1                           |
| 80.00                  | 100.1                              | -0.2                          |
| 60.00                  | 100.1                              | -0.1                          |
| 50.00                  | 99.6                               | 0.6                           |
| 40.00                  | 98.5                               | 1.1                           |
| 30.00                  | 97.6                               | 0.9                           |
| 25.00                  | 97.2                               | 0.4                           |
| 20.00                  | 95.9                               | 1.3                           |
| 15.00                  | 93.5                               | 2.4                           |
| 10.00                  | 90.1                               | 3.4                           |
| 8.00                   | 86.8                               | 3.2                           |
| 6.00                   | 81.5                               | 5.3                           |
| 5.00                   | 77.4                               | 4.1                           |
| 4.00                   | 72.9                               | 4.5                           |
| 3.00                   | 67.8                               | 5.1                           |
| 2.00                   | 60.3                               | 7.5                           |
| 1.50                   | 53.1                               | 7.1                           |
| 1.00                   | 41.2                               | 12.0                          |
| 0.80                   | 34.1                               | 7.1                           |
| 0.60                   | 24.5                               | 9.6                           |
| 0.50                   | 18.6                               | 6.0                           |
| 0.40                   | 11.3                               | 7.3                           |



SAMPLE DIRECTORY/NUMBER: DATAB /95  
 SAMPLE ID: Hole 92-4 # 16464  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 87 kilocounts/sec

UNIT NUMBER: 1  
 START 14:05:30 07/04/96  
 REPT 14:13:28 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

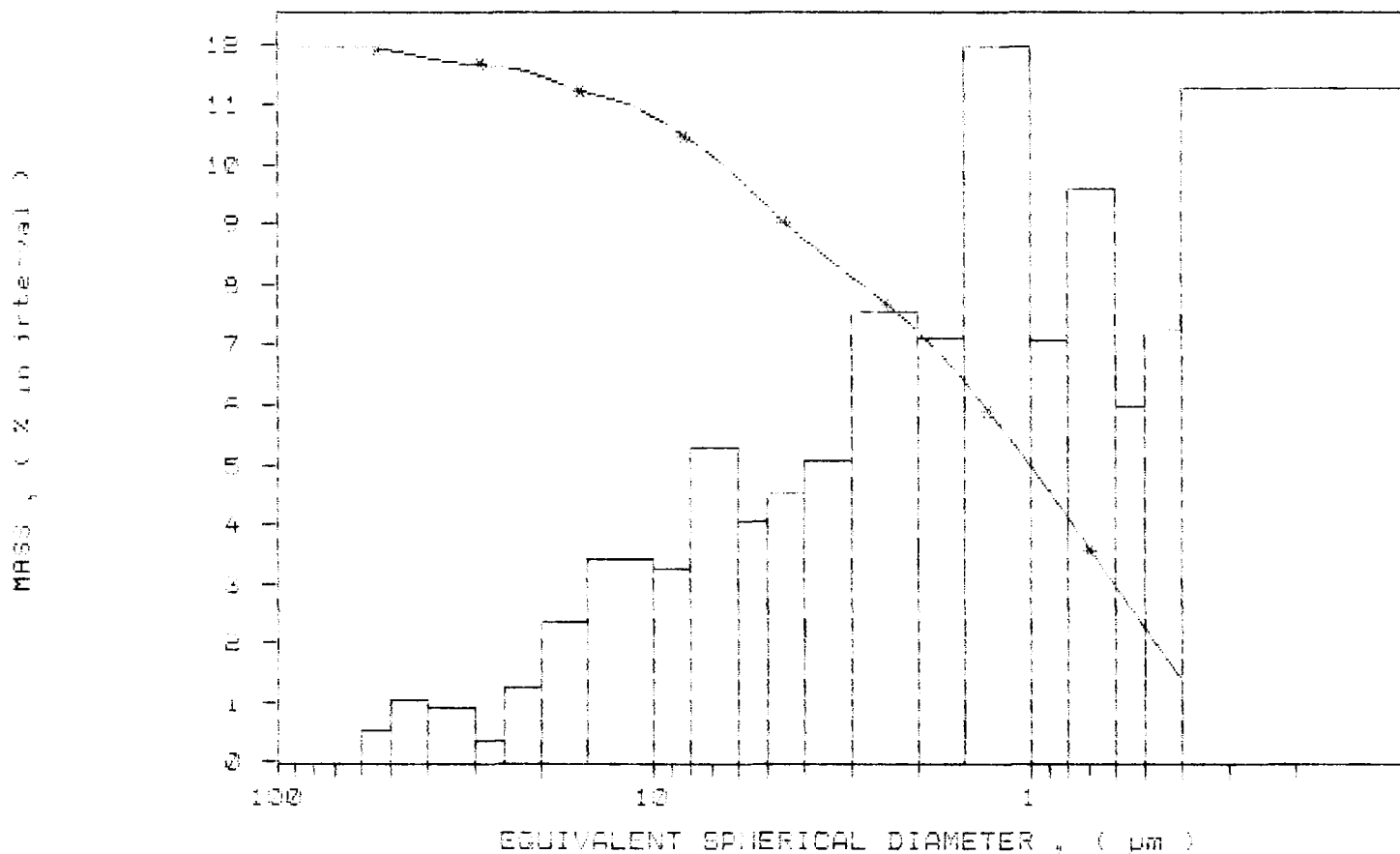
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /95  
 SAMPLE ID: Hole 92-4 # 16464  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASFLINE/FULL SCALE: 124/ 87 kilocounts/sec

UNIT NUMBER: 1  
 START 14:05:30 07/04/96  
 REPRT 14:13:28 07/04/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATAB /96  
 SAMPLE ID: Hole 92-4 # 16465  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 87 kilocounts/sec

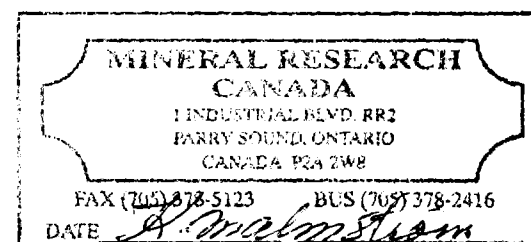
UNIT NUMBER: 1  
 START 14:28:24 07/04/96  
 RFPRT 14:36:19 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

MEDIAN DIAMETER: 1.43  $\mu$ m  
 MODAL DIAMETER: 0.97  $\mu$ m

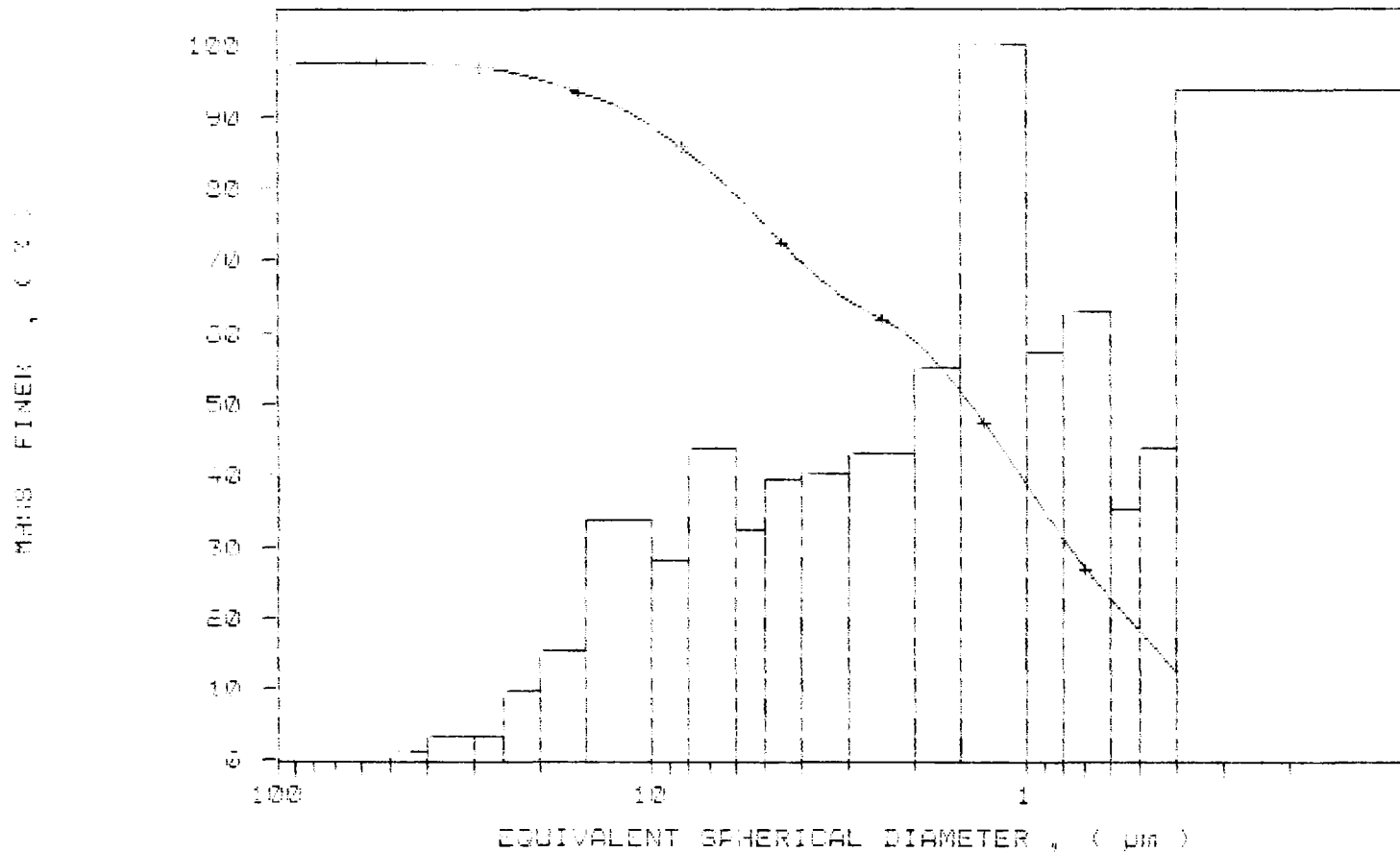
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 97.1                               | 2.9                           |
| 80.00                  | 97.3                               | -0.2                          |
| 60.00                  | 97.4                               | -0.1                          |
| 50.00                  | 97.4                               | -0.1                          |
| 40.00                  | 97.2                               | 0.2                           |
| 30.00                  | 96.8                               | 0.5                           |
| 25.00                  | 96.3                               | 0.4                           |
| 20.00                  | 95.0                               | 1.3                           |
| 15.00                  | 93.0                               | 2.1                           |
| 10.00                  | 88.5                               | 4.5                           |
| 8.00                   | 84.8                               | 3.7                           |
| 6.00                   | 79.1                               | 5.7                           |
| 5.00                   | 74.8                               | 4.3                           |
| 4.00                   | 69.6                               | 5.2                           |
| 3.00                   | 64.3                               | 5.3                           |
| 2.00                   | 58.7                               | 5.6                           |
| 1.50                   | 51.5                               | 7.2                           |
| 1.00                   | 38.4                               | 13.1                          |
| 0.80                   | 30.9                               | 7.5                           |
| 0.60                   | 22.6                               | 8.3                           |
| 0.50                   | 18.0                               | 4.6                           |
| 0.40                   | 12.3                               | 5.7                           |



SAMPLE DIRECTORY/NUMBER: DAT8 /96  
 SAMPLE ID: Hole 92-4 # 16465  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 87 kilocounts/sec

UNIT NUMBER: 1  
 START 14:28:24 07/04/96  
 REPT 14:36:19 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

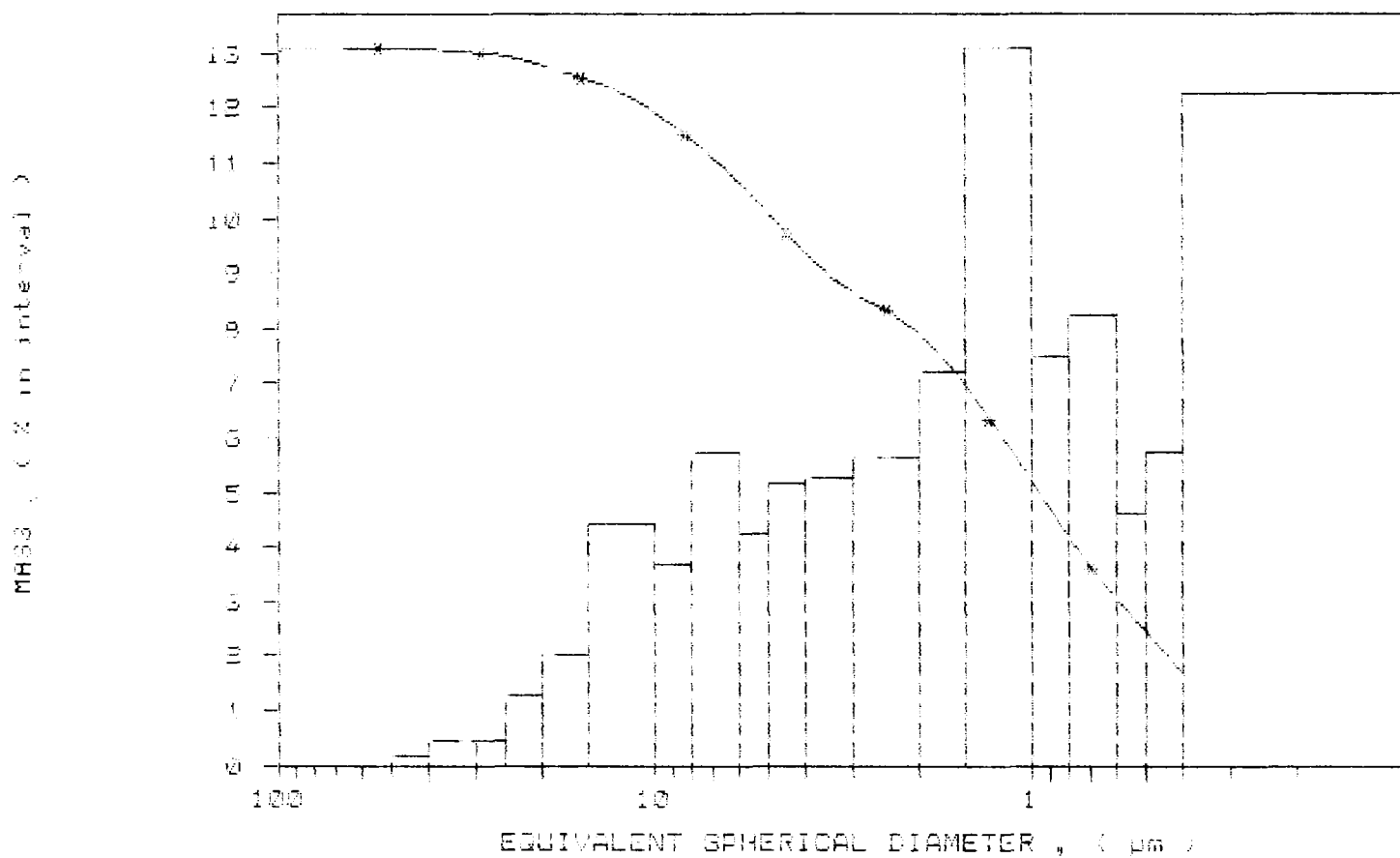
+ CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /96  
SAMPLE ID: Hole 92-4 # 16465  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 87 kilocounts/sec

UNIT NUMBER: J  
START 14:28:24 07/04/96  
REPRT 14:36:19 07/04/96  
TOT RUN TIME 0:07:38  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7602 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /97  
 SAMPLE ID: Hole 92-4 # 16466  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1  
 START 14:48:21 07/04/96  
 REPR 14:56:17 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

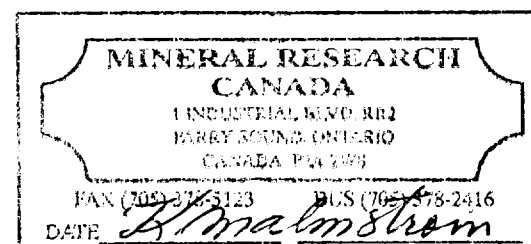
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 0.92  $\mu$ m

MODAL DIAMETER: 1.04  $\mu$ m

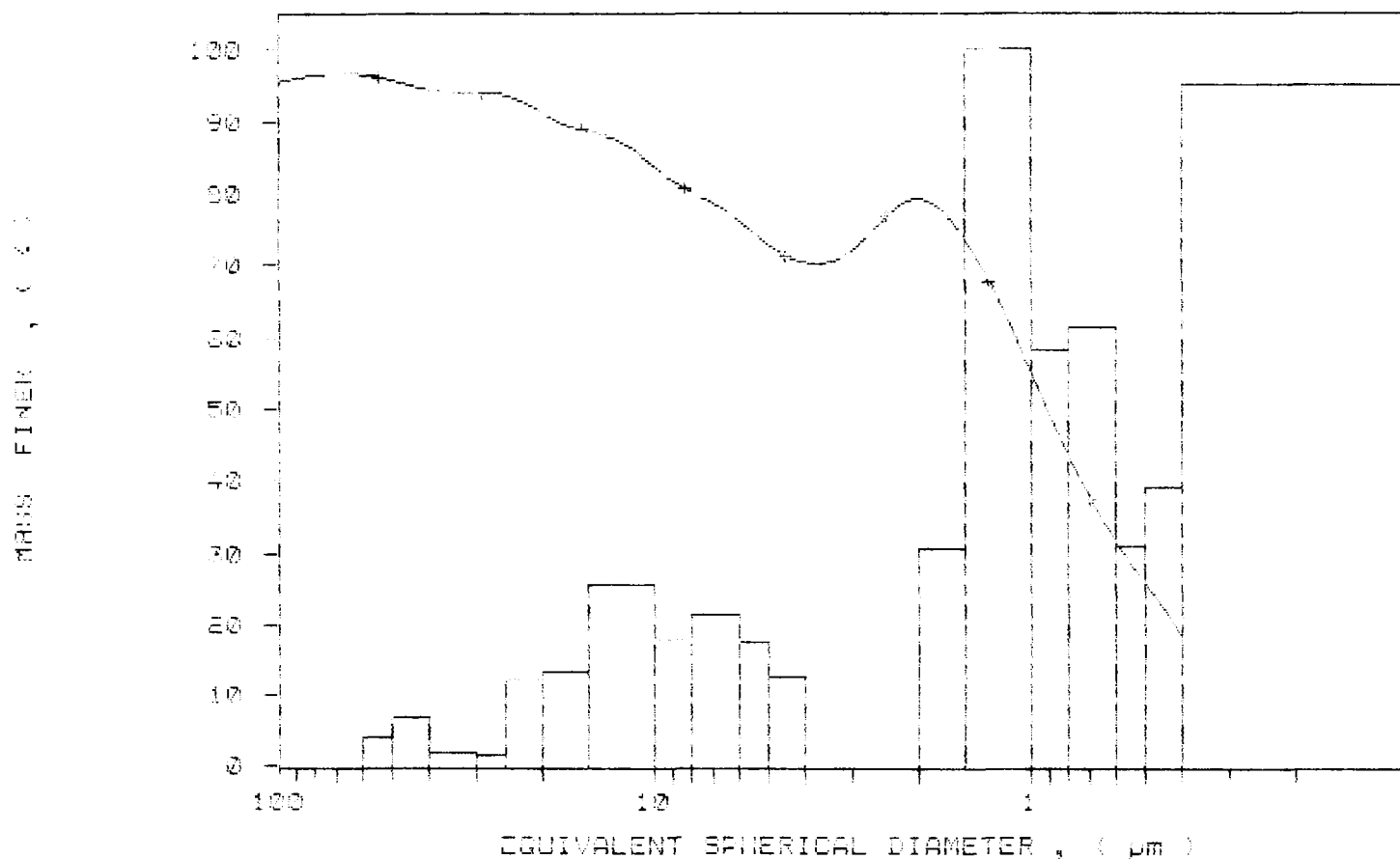
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 95.4                               | 4.6                           |
| 80.00                  | 96.4                               | -1.0                          |
| 60.00                  | 96.5                               | -0.1                          |
| 50.00                  | 95.6                               | 0.8                           |
| 40.00                  | 94.3                               | 1.3                           |
| 30.00                  | 93.9                               | 0.4                           |
| 25.00                  | 93.6                               | 0.4                           |
| 20.00                  | 91.2                               | 2.4                           |
| 15.00                  | 88.6                               | 2.6                           |
| 10.00                  | 83.7                               | 4.9                           |
| 8.00                   | 80.3                               | 3.5                           |
| 6.00                   | 76.2                               | 4.1                           |
| 5.00                   | 72.8                               | 3.3                           |
| 4.00                   | 70.4                               | 2.5                           |
| 3.00                   | 72.1                               | -1.7                          |
| 2.00                   | 79.3                               | -7.2                          |
| 1.50                   | 73.4                               | 5.9                           |
| 1.00                   | 54.4                               | 19.1                          |
| 0.80                   | 43.2                               | 11.1                          |
| 0.60                   | 31.5                               | 11.7                          |
| 0.50                   | 25.6                               | 5.9                           |
| 0.40                   | 18.1                               | 7.5                           |



SAMPLE DIRECTORY/NUMBER: DATAB /97  
 SAMPLE ID: Hole 92-4 # 16466  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1  
 START 14:48:21 07/04/96  
 REPRT 14:56:17 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DFNS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER

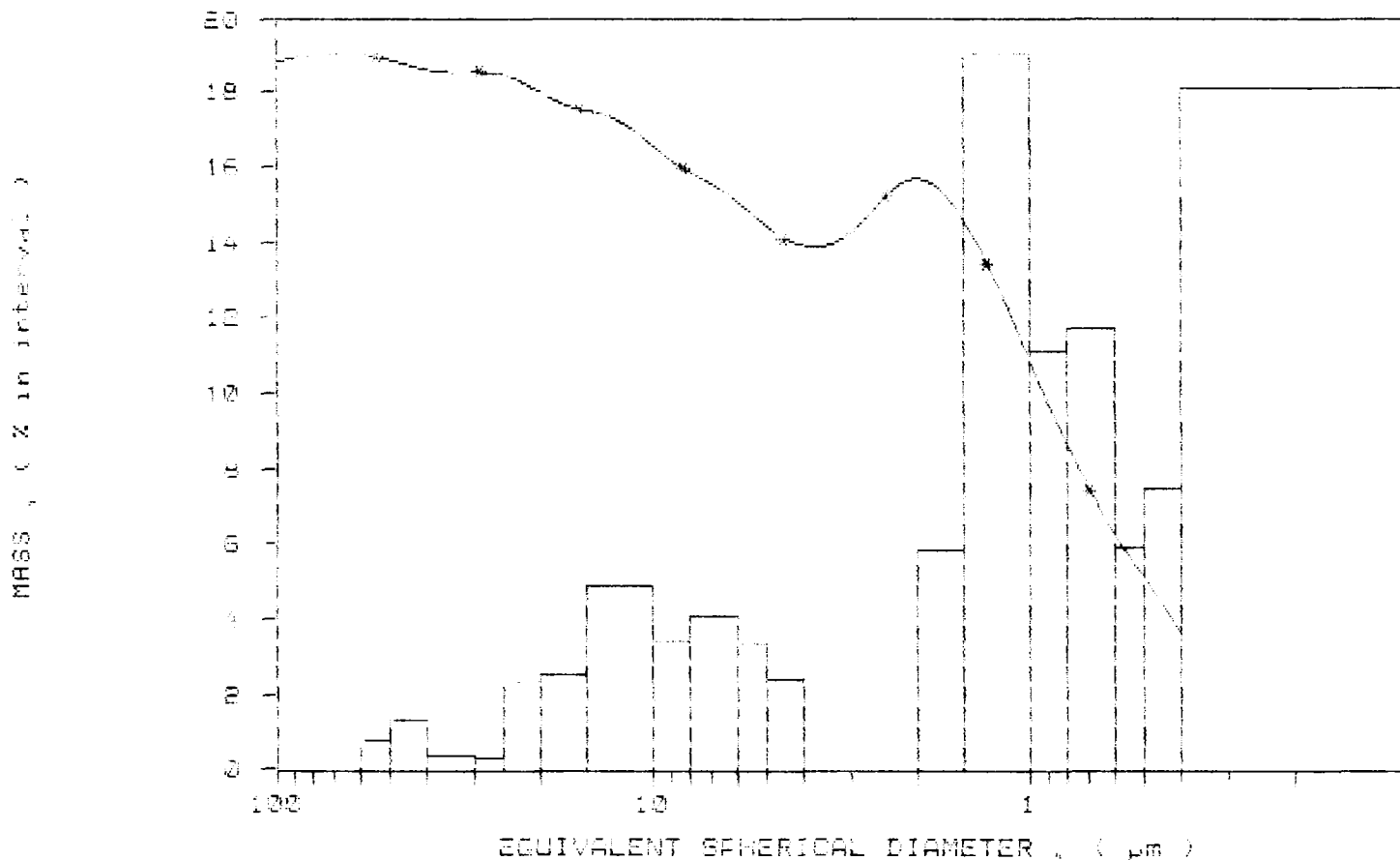




SAMPLE DIRECTORY/NUMBER: DATAB /97  
 SAMPLE ID: Hole 92-4 # 16466  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 111 kilocounts/sec

UNIT NUMBER: 1  
 START 14:48:21 07/04/96  
 REPRT 14:56:17 07/04/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATA8 /98  
 SAMPLE ID: Hole 92-4 # 16467  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 15:15:46 07/04/96  
 REPRT 15:23:47 07/04/96  
 TOT RUN TIME 0:07:44  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

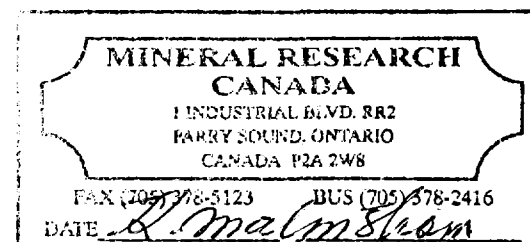
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.52  $\mu$ m

MODAL DIAMETER: 1.01  $\mu$ m

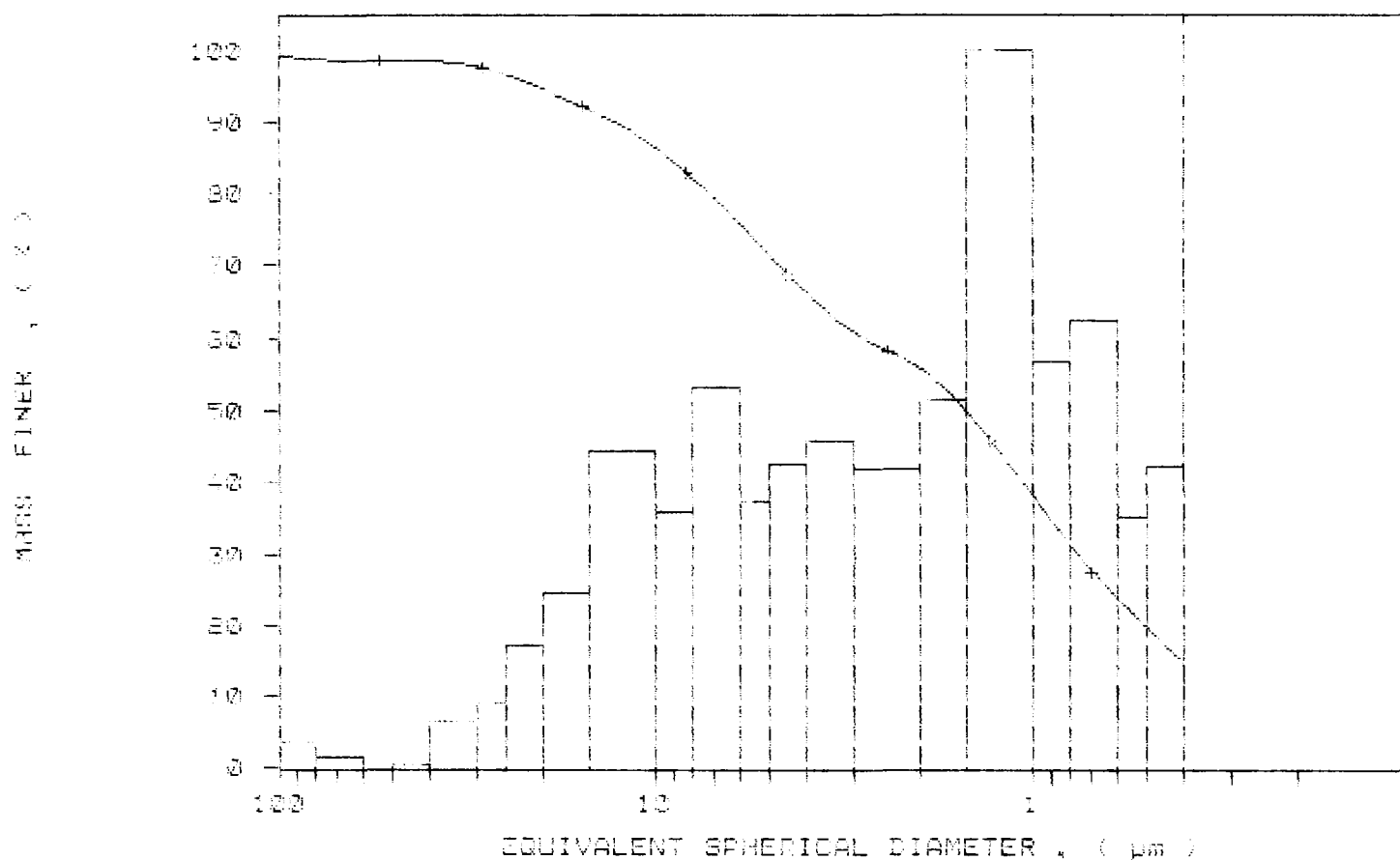
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 99.2                               | 0.8                           |
| 80.00                  | 98.7                               | 0.4                           |
| 60.00                  | 98.5                               | 0.2                           |
| 50.00                  | 98.5                               | 0.0                           |
| 40.00                  | 98.4                               | 0.1                           |
| 30.00                  | 97.6                               | 0.8                           |
| 25.00                  | 96.5                               | 1.1                           |
| 20.00                  | 94.5                               | 2.0                           |
| 15.00                  | 91.6                               | 2.9                           |
| 10.00                  | 86.3                               | 5.3                           |
| 8.00                   | 82.0                               | 4.3                           |
| 6.00                   | 75.7                               | 6.3                           |
| 5.00                   | 71.3                               | 4.4                           |
| 4.00                   | 66.2                               | 5.0                           |
| 3.00                   | 60.8                               | 5.4                           |
| 2.00                   | 55.8                               | 5.0                           |
| 1.50                   | 49.7                               | 6.1                           |
| 1.00                   | 37.9                               | 11.8                          |
| 0.80                   | 31.1                               | 6.8                           |
| 0.60                   | 23.7                               | 7.4                           |
| 0.50                   | 19.5                               | 4.2                           |
| 0.40                   | 14.5                               | 5.0                           |



SAMPLE DIRECTORY/NUMBER: DATA8 /98  
 SAMPLE ID: Hole 92-4 # 16467  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 15:15:46 07/04/96  
 REPT 15:23:47 07/04/96  
 TOT RUN TIME 0:07:44  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

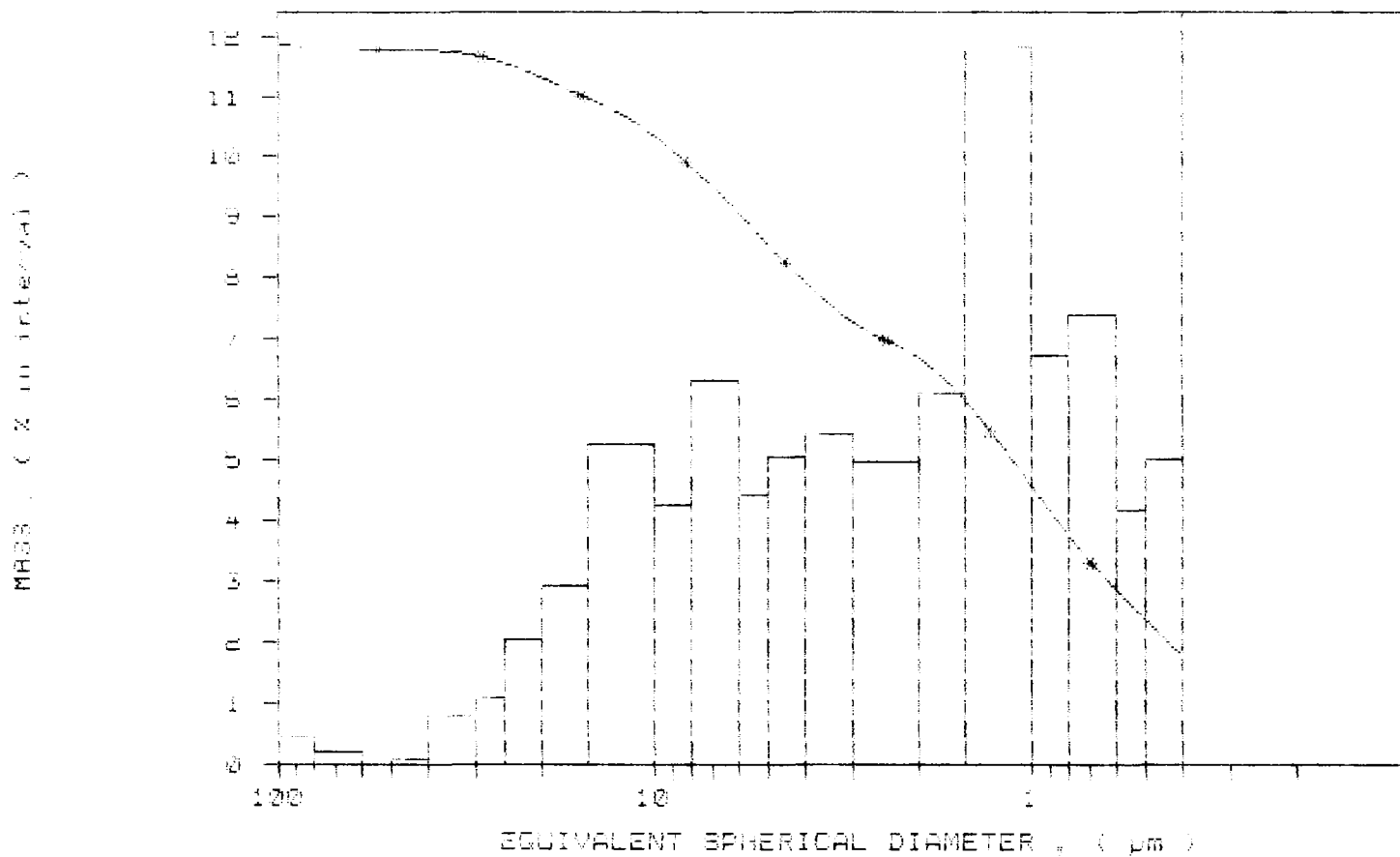
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /98  
 SAMPLE ID: Hole 92-4 # 16467  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 90 kilocounts/sec

UNIT NUMBER: 1  
 START 15:15:46 07/04/96  
 REPRT 15:23:47 07/04/96  
 TOT RUN TIME 0:07:44  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7602 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /99  
 SAMPLE ID: Hole 92-4 # 16468  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 19:00:14 07/04/96  
 REPT 19:08:19 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7607 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

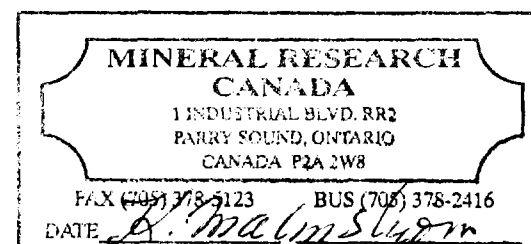
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.32  $\mu$ m

MODAL DIAMETER: 1.01  $\mu$ m

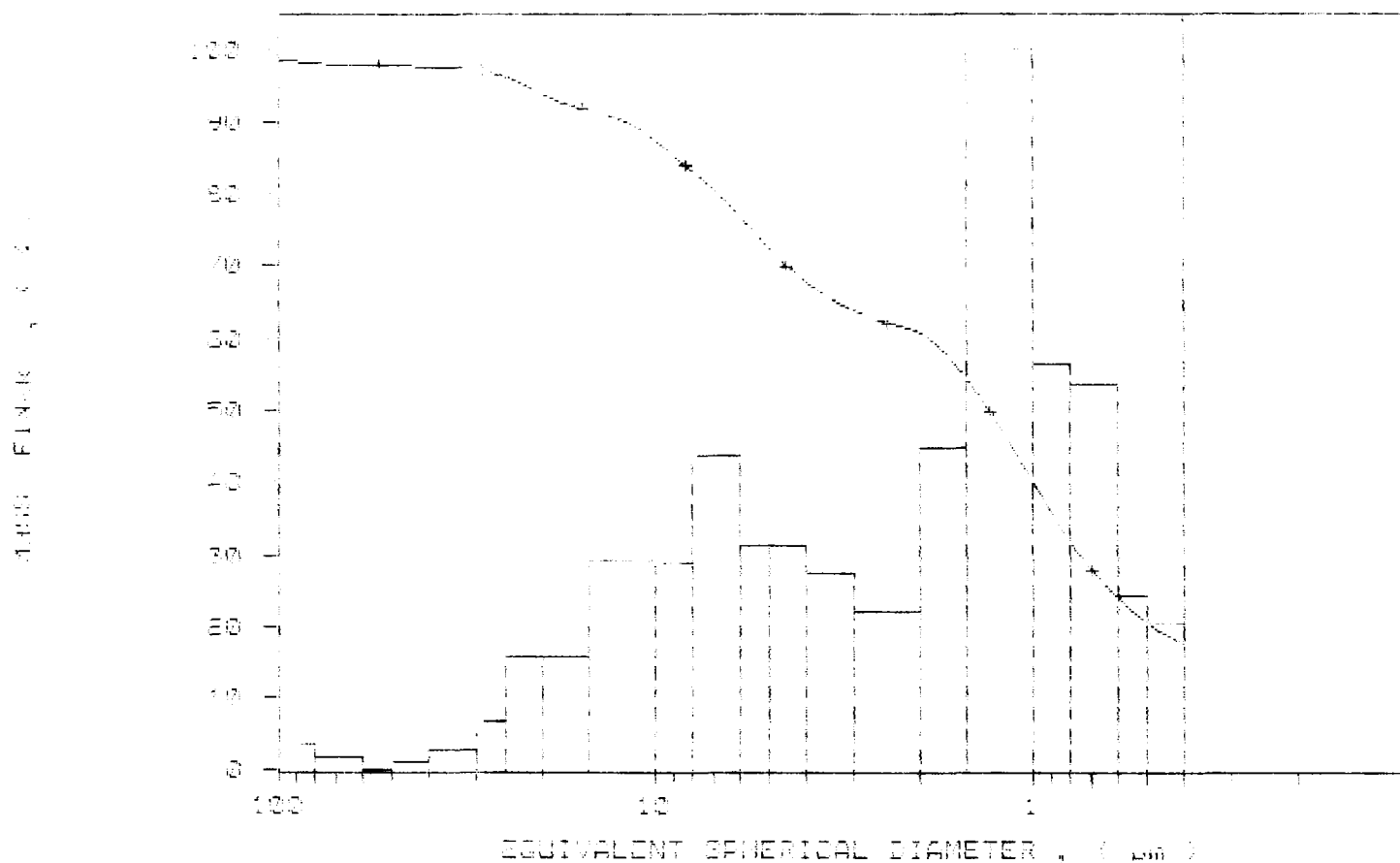
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 98.6                               | 1.4                           |
| 80.00                  | 98.0                               | 0.6                           |
| 60.00                  | 97.7                               | 0.3                           |
| 50.00                  | 97.7                               | 0.1                           |
| 40.00                  | 97.5                               | 0.2                           |
| 30.00                  | 97.0                               | 0.5                           |
| 25.00                  | 96.0                               | 1.0                           |
| 20.00                  | 93.7                               | 2.3                           |
| 15.00                  | 91.4                               | 2.3                           |
| 10.00                  | 87.2                               | 4.2                           |
| 8.00                   | 83.1                               | 4.2                           |
| 6.00                   | 76.7                               | 6.3                           |
| 5.00                   | 72.2                               | 4.5                           |
| 4.00                   | 67.7                               | 4.5                           |
| 3.00                   | 63.8                               | 3.9                           |
| 2.00                   | 60.6                               | 3.2                           |
| 1.50                   | 54.1                               | 6.4                           |
| 1.00                   | 39.7                               | 14.4                          |
| 0.80                   | 31.6                               | 8.1                           |
| 0.60                   | 23.9                               | 7.7                           |
| 0.50                   | 20.3                               | 3.5                           |
| 0.40                   | 17.4                               | 2.9                           |



SAMPLE DIRECTORY/NUMBER: DATAB /99  
 SAMPLE ID: Hole 92-4 # 16468  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 19:00:14 07/04/96  
 REPRT 19:08:19 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7607 cp  
 RUN TYPE: High Speed

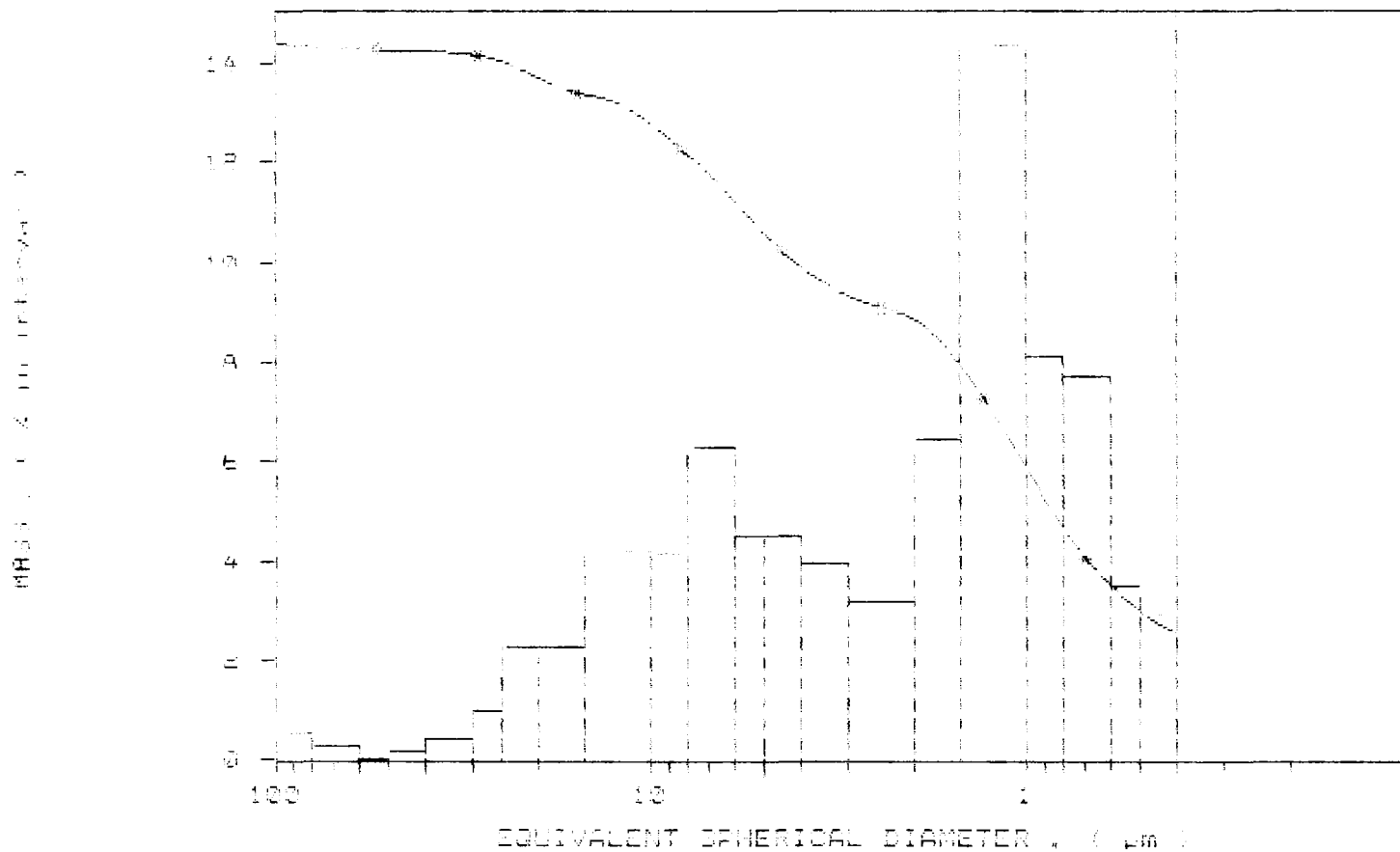
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /99  
 SAMPLE ID: Hole 92-4 # 16468  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 97 kilocounts/sec

UNIT NUMBER: 1  
 START 19:00:14 07/04/96  
 REPT 19:08:19 07/04/96  
 TOT RUN TIME 0:07:47  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7607 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /100  
 SAMPLE ID: Hole 92-4 # 16469  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 81 kilocounts/sec

UNIT NUMBER: 1  
 START 19:42:52 07/04/96  
 REPR 19:50:59 07/04/96  
 TOT RUN TIME 0:07:49  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

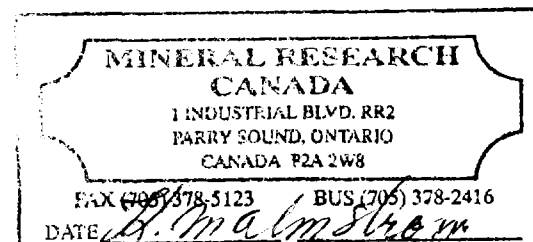
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.56  $\mu$ m

MODAL DIAMETER: 1.11  $\mu$ m

| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 97.8                               | 2.2                           |
| 80.00                  | 97.8                               | 0.1                           |
| 60.00                  | 97.6                               | 0.2                           |
| 50.00                  | 97.4                               | 0.2                           |
| 40.00                  | 97.1                               | 0.3                           |
| 30.00                  | 96.5                               | 0.6                           |
| 25.00                  | 95.5                               | 0.9                           |
| 20.00                  | 93.5                               | 2.0                           |
| 15.00                  | 90.1                               | 3.4                           |
| 10.00                  | 84.9                               | 5.2                           |
| 8.00                   | 80.7                               | 4.8                           |
| 6.00                   | 74.1                               | 6.1                           |
| 5.00                   | 69.9                               | 4.2                           |
| 4.00                   | 64.6                               | 5.3                           |
| 3.00                   | 59.4                               | 5.2                           |
| 2.00                   | 54.1                               | 5.3                           |
| 1.50                   | 49.1                               | 5.1                           |
| 1.00                   | 38.7                               | 10.8                          |
| 0.80                   | 32.3                               | 5.9                           |
| 0.60                   | 25.3                               | 7.0                           |
| 0.50                   | 21.1                               | 4.3                           |
| 0.40                   | 16.2                               | 4.9                           |

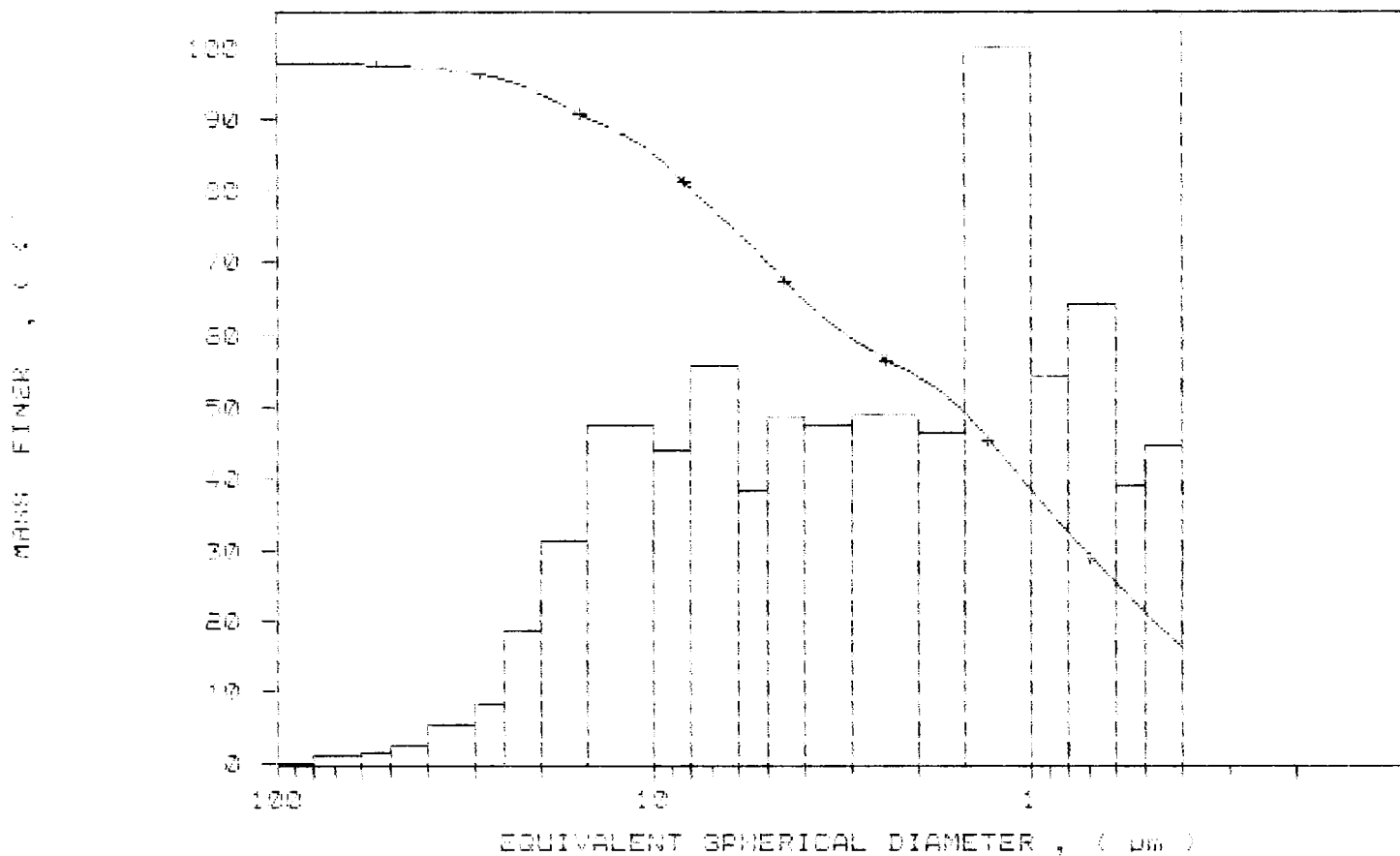




SAMPLE DIRECTORY/NUMBER: DATAR /100  
SAMPLE ID: Hole 92-4 # 16469  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 81 kilocounts/sec

UNIT NUMBER: 1  
START 19:42:52 07/04/96  
REPRT 19:50:59 07/04/96  
TOT RUN TIME 0:07:49  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7605 cp  
RUN TYPE: High Speed

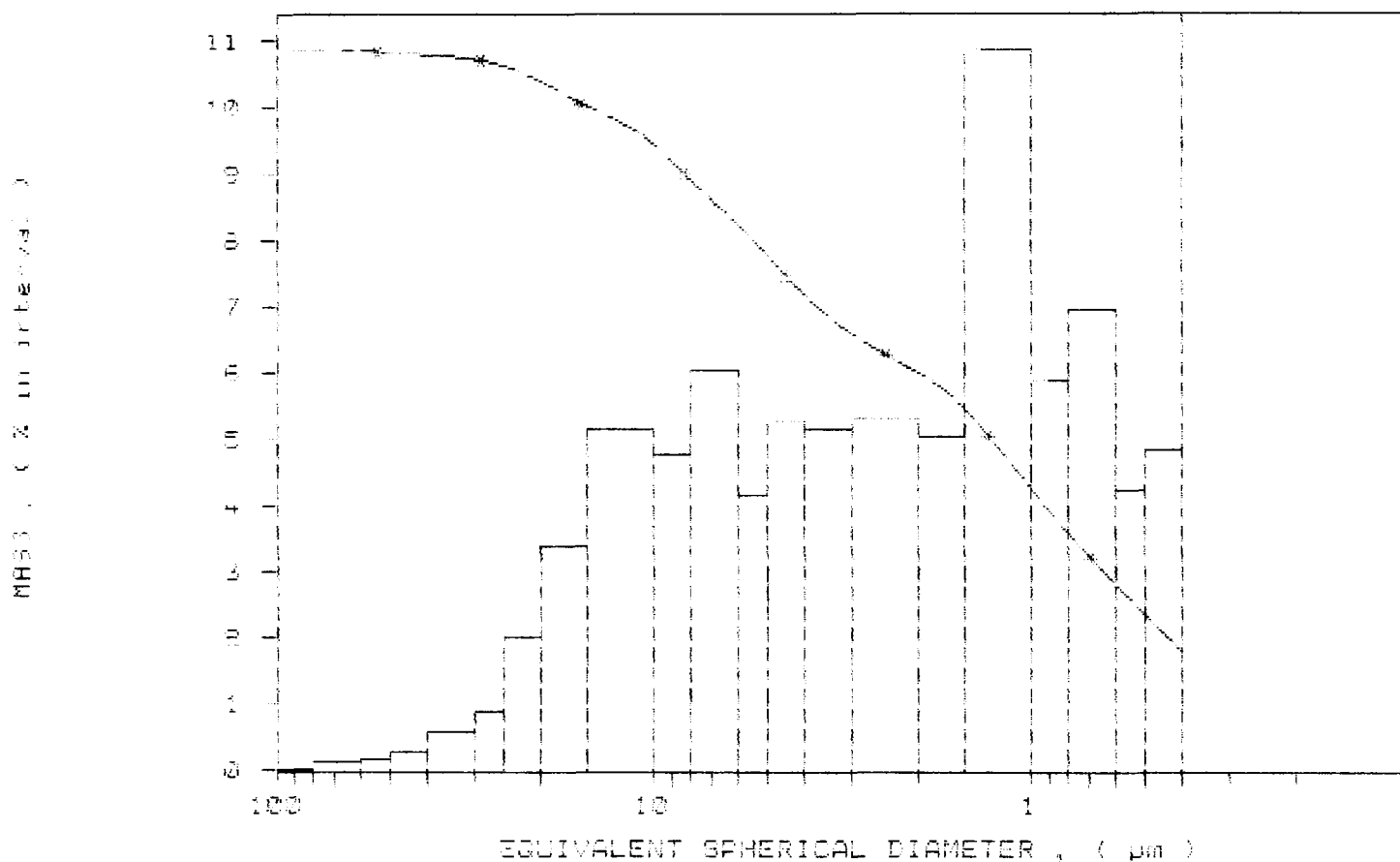
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /100  
 SAMPLE ID: Hole 92-4 # 16469  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 81 kilocounts/sec

UNIT NUMBER: 1  
 START 19:42:52 07/04/96  
 REPT 19:50:59 07/04/96  
 TOT RUN TIME 0:07:49  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

Hole 92-4 # 16470

PAGE 1

SAMPLE DIRECTORY/NUMBER: DATAB /101  
SAMPLE ID: Hole 92-4 # 16470  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
START 10:45:07 07/08/96  
REPRT 10:53:16 07/08/96  
TOT RUN TIME 0:07:52  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu\text{m}$   
ENDING DIAMETER: 0.40  $\mu\text{m}$

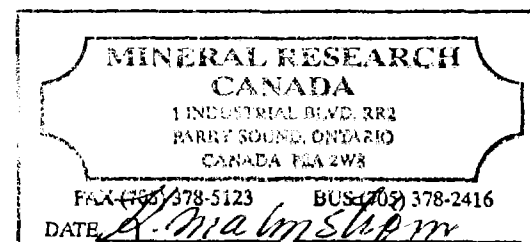
REYNOLDS NUMBER: 1.50  
FULL SCALE MASS %: 100

MASS DISTRIBUTION

MEDIAN DIAMETER: 3.98  $\mu\text{m}$

MODAL DIAMETER: 5.65  $\mu\text{m}$

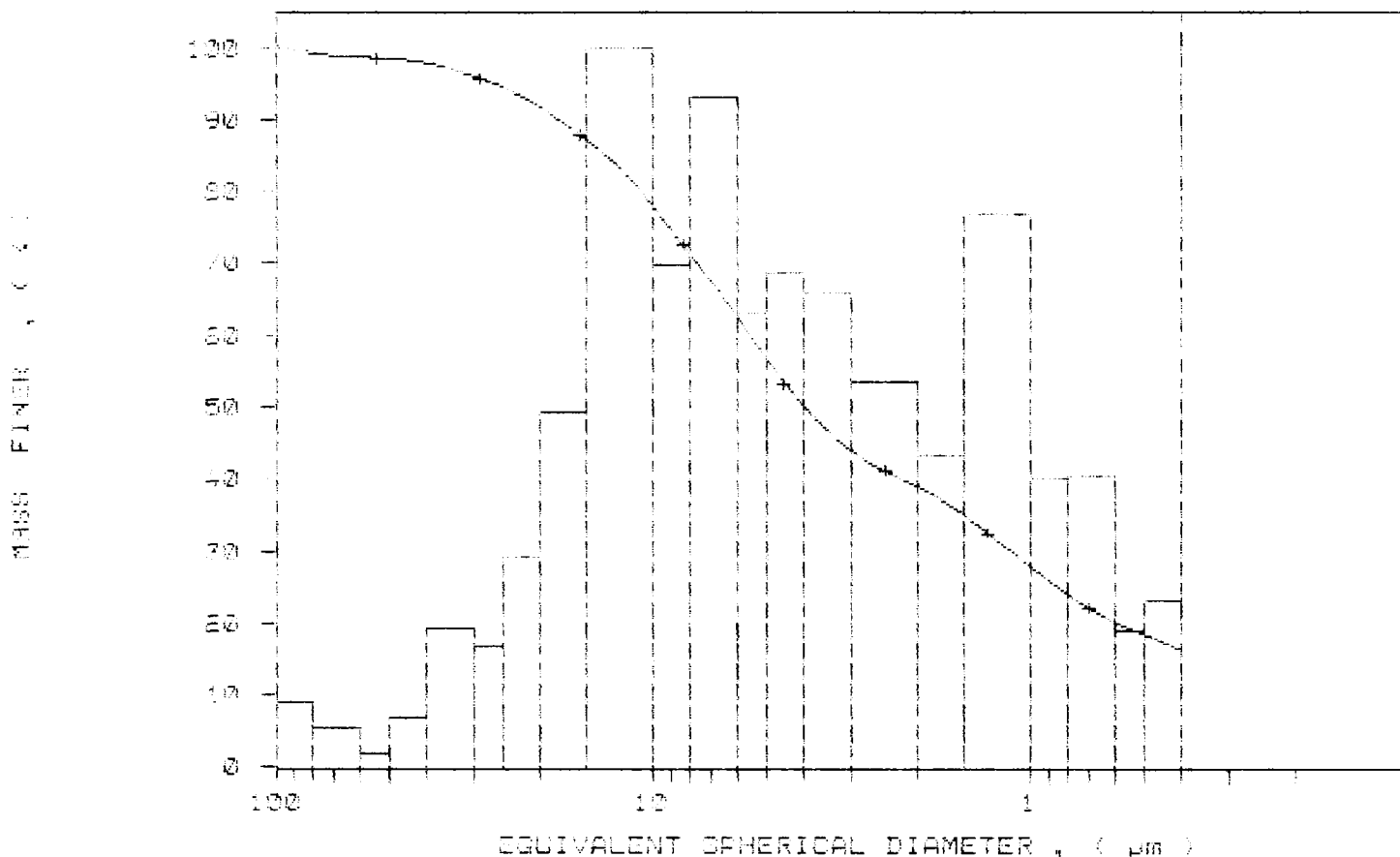
| DIAMETER<br>( $\mu\text{m}$ ) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|-------------------------------|------------------------------------|-------------------------------|
| 100.00                        | 100.1                              | -0.1                          |
| 80.00                         | 99.2                               | 0.9                           |
| 60.00                         | 98.7                               | 0.5                           |
| 50.00                         | 98.5                               | 0.2                           |
| 40.00                         | 97.8                               | 0.7                           |
| 30.00                         | 96.0                               | 1.8                           |
| 25.00                         | 94.4                               | 1.6                           |
| 20.00                         | 91.7                               | 2.7                           |
| 15.00                         | 87.1                               | 4.6                           |
| 10.00                         | 77.7                               | 9.3                           |
| 8.00                          | 71.2                               | 6.5                           |
| 6.00                          | 62.5                               | 8.7                           |
| 5.00                          | 56.6                               | 5.9                           |
| 4.00                          | 50.1                               | 6.4                           |
| 3.00                          | 44.0                               | 6.2                           |
| 2.00                          | 39.0                               | 5.0                           |
| 1.50                          | 34.9                               | 4.1                           |
| 1.00                          | 27.7                               | 7.2                           |
| 0.80                          | 23.9                               | 3.8                           |
| 0.60                          | 20.1                               | 3.8                           |
| 0.50                          | 18.4                               | 1.8                           |
| 0.40                          | 16.2                               | 2.2                           |



SAMPLE DIRECTORY/NUMBER: DATA8 /101  
SAMPLE ID: Hole 92-4 # 16470  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
START 10:45:07 07/08/96  
REPRT 10:53:16 07/08/96  
TOT RUN TIME 0:07:52  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

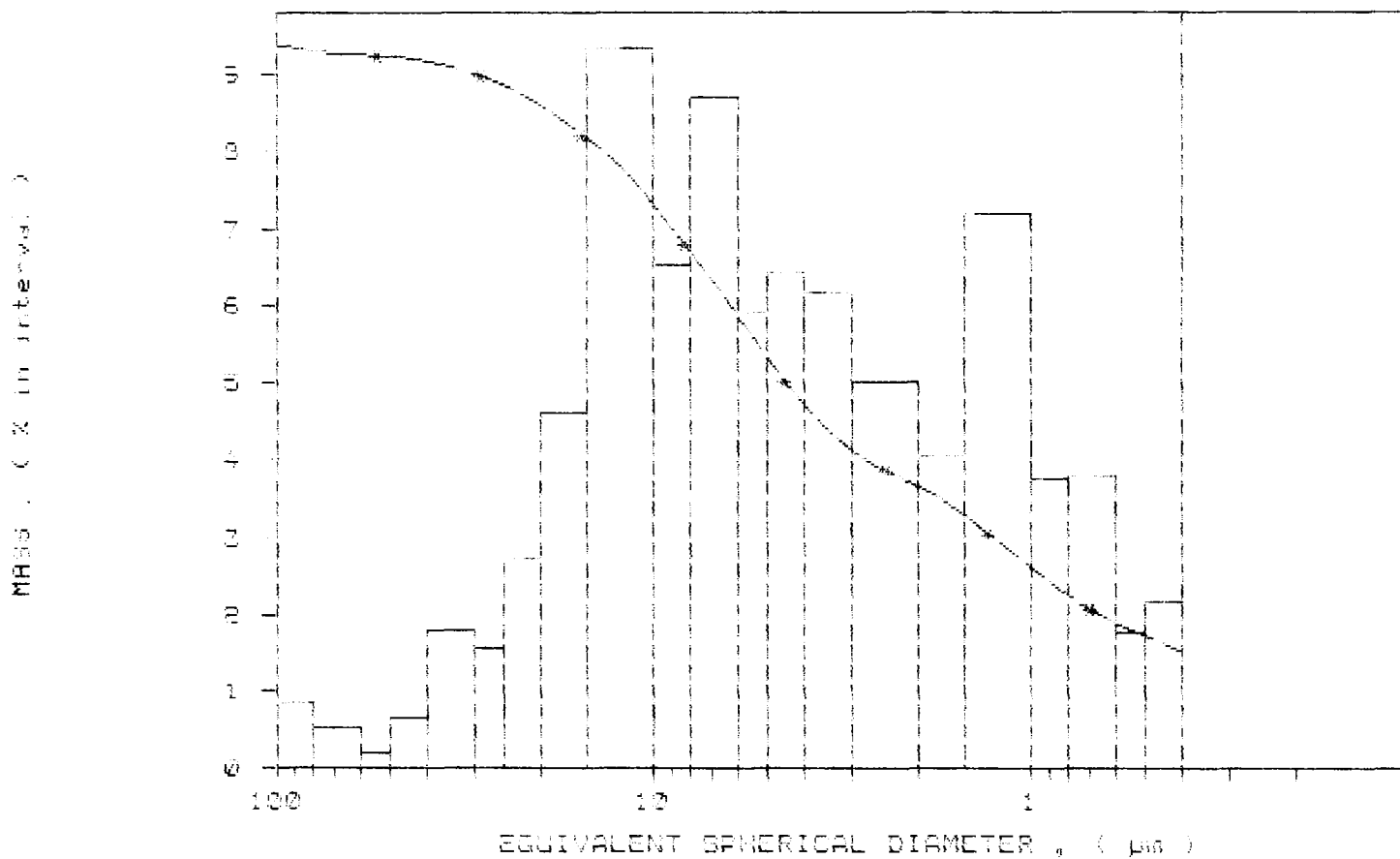
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /101  
SAMPLE ID: Hole 92-4 # 16470  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 86 kilocounts/sec

UNIT NUMBER: 1  
START 10:45:07 07/08/96  
RFPRT 10:53:16 07/08/96  
TOT RUN TIME 0:07:52  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
& CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /102  
 SAMPLE ID: Hole 92-4 # 16471  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
 START 11:09:16 07/08/96  
 REPT 11:17:19 07/08/96  
 TOT RUN TIME 0:07:46  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

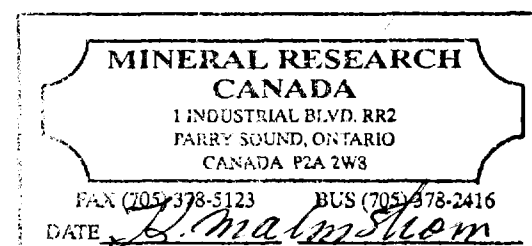
STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 6.22  $\mu$ m MODAL DIAMETER: 7.72  $\mu$ m

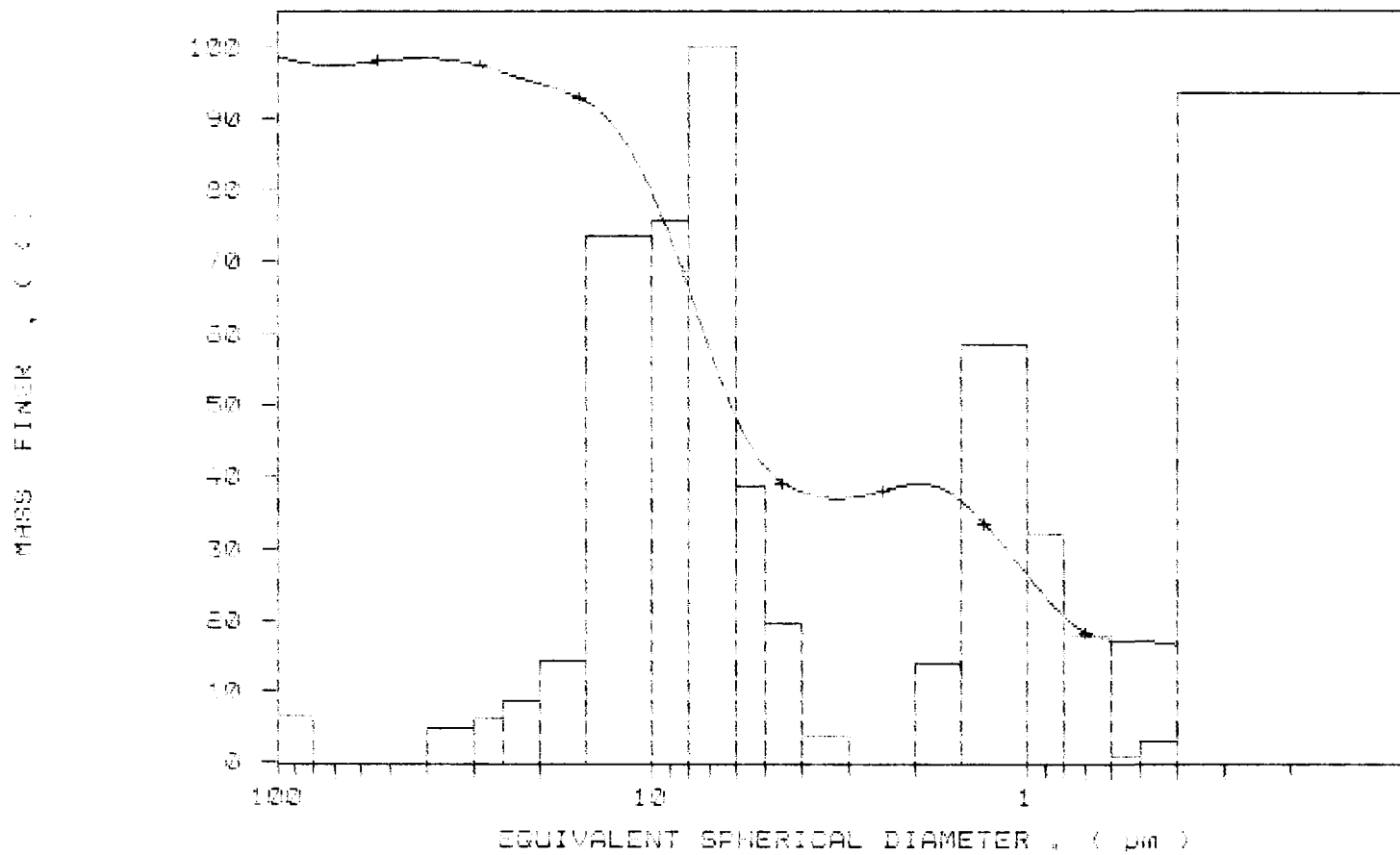
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 98.7                               | 1.3                           |
| 80.00                  | 97.5                               | 1.2                           |
| 60.00                  | 97.7                               | -0.2                          |
| 50.00                  | 98.2                               | -0.5                          |
| 40.00                  | 98.4                               | -0.2                          |
| 30.00                  | 97.5                               | 0.8                           |
| 25.00                  | 96.4                               | 1.1                           |
| 20.00                  | 94.8                               | 1.6                           |
| 15.00                  | 92.2                               | 2.6                           |
| 10.00                  | 79.2                               | 13.0                          |
| 8.00                   | 65.8                               | 13.4                          |
| 6.00                   | 48.2                               | 17.6                          |
| 5.00                   | 41.4                               | 6.8                           |
| 4.00                   | 37.8                               | 3.5                           |
| 3.00                   | 37.2                               | 0.7                           |
| 2.00                   | 39.0                               | -1.9                          |
| 1.50                   | 36.5                               | 2.5                           |
| 1.00                   | 26.2                               | 10.4                          |
| 0.80                   | 20.5                               | 5.7                           |
| 0.60                   | 17.3                               | 3.2                           |
| 0.50                   | 17.1                               | 0.2                           |
| 0.40                   | 16.5                               | 0.5                           |



SAMPLE DIRECTORY/NUMBER: DATAB /102  
SAMPLE ID: Hole 92-4 # 16471  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
START 11:09:16 07/08/96  
REPRT 11:17:19 07/08/96  
TOT RUN TIME 0:07:46  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7605 cp  
RUN TYPE: High Speed

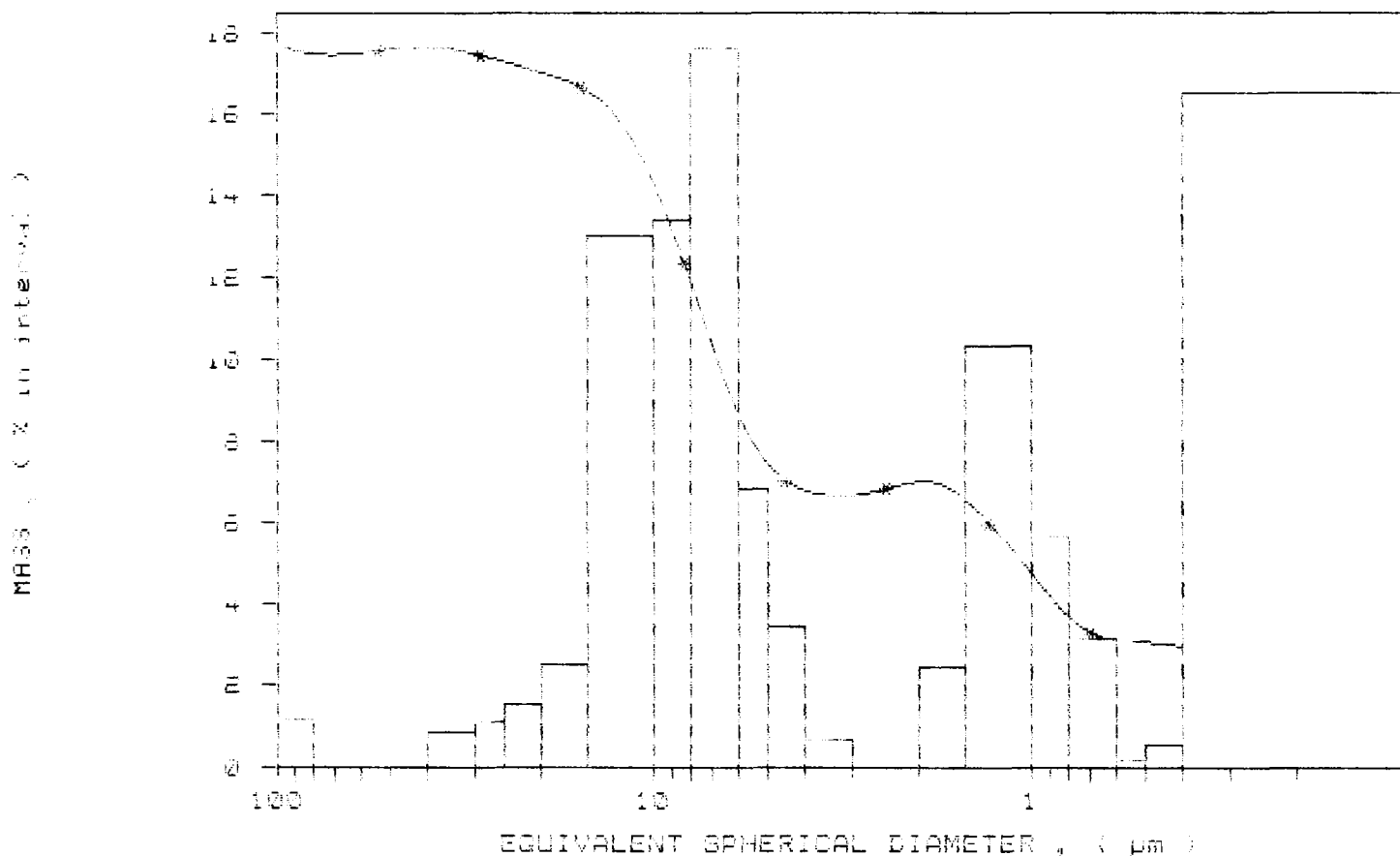
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /102  
 SAMPLE ID: Hole 92-4 # 16471  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
 START 11:09:16 07/08/96  
 REPT 11:17:19 07/08/96  
 TOT RUN TIME 0:07:46  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER





SAMPLE DIRECTORY/NUMBER: DATAB /103  
 SAMPLE ID: Hole 92-4 # 16472  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 83 kilocounts/sec

UNIT NUMBER: 1  
 START 11:32:42 07/08/96  
 REPT 11:40:48 07/08/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

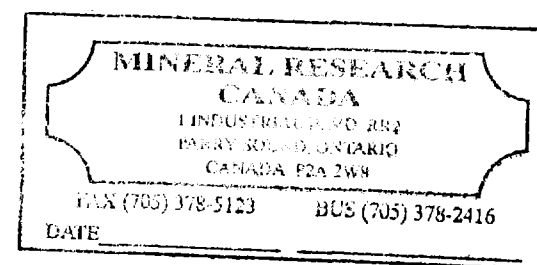
STARTING DIAMETER: 100.00  $\mu\text{m}$   
 ENDING DIAMETER: 0.40  $\mu\text{m}$

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.71  $\mu\text{m}$  MODAL DIAMETER: 1.09  $\mu\text{m}$

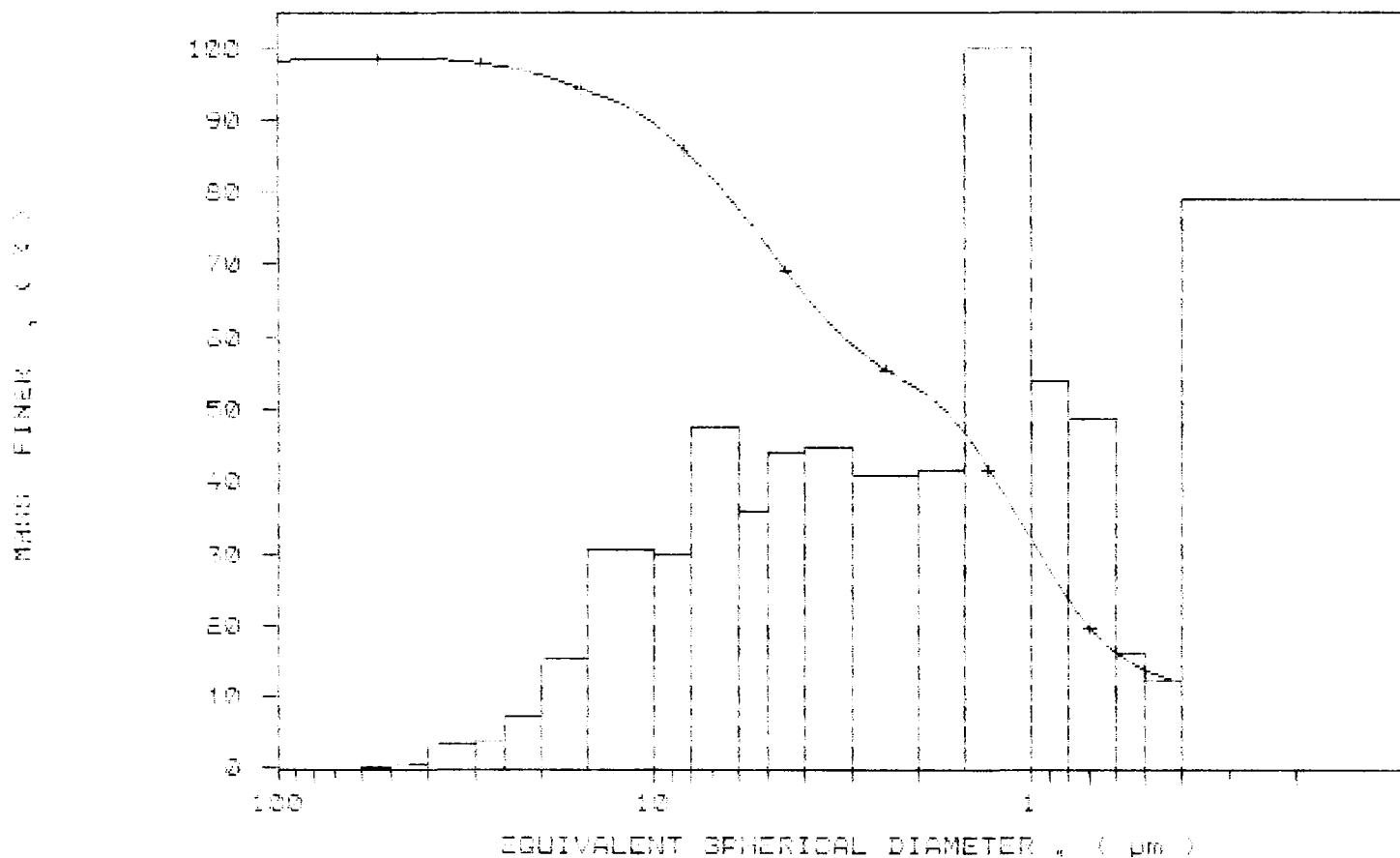
| DIAMETER<br>( $\mu\text{m}$ ) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|-------------------------------|------------------------------------|-------------------------------|
| 100.00                        | 98.2                               | 1.8                           |
| 80.00                         | 98.4                               | -0.3                          |
| 60.00                         | 98.6                               | -0.1                          |
| 50.00                         | 98.6                               | 0.0                           |
| 40.00                         | 98.4                               | 0.1                           |
| 30.00                         | 97.9                               | 0.5                           |
| 25.00                         | 97.3                               | 0.6                           |
| 20.00                         | 96.2                               | 1.1                           |
| 15.00                         | 93.9                               | 2.3                           |
| 10.00                         | 89.3                               | 4.6                           |
| 8.00                          | 84.8                               | 4.5                           |
| 6.00                          | 77.7                               | 7.1                           |
| 5.00                          | 72.3                               | 5.4                           |
| 4.00                          | 65.7                               | 6.6                           |
| 3.00                          | 58.9                               | 6.7                           |
| 2.00                          | 52.8                               | 6.2                           |
| 1.50                          | 46.5                               | 6.3                           |
| 1.00                          | 31.5                               | 15.0                          |
| 0.80                          | 23.4                               | 8.1                           |
| 0.60                          | 16.2                               | 7.3                           |
| 0.50                          | 13.7                               | 2.4                           |
| 0.40                          | 11.9                               | 1.9                           |



SAMPLE DIRECTORY/NUMBER: DATAB /103  
SAMPLE ID: Hole 92-4 # 16472  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 83 kilocounts/sec

UNIT NUMBER: 1  
START 11:32:42 07/08/96  
REPRT 11:40:48 07/08/96  
TOT RUN TIME 0:07:48  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7605 cp  
RUN TYPE: High Speed

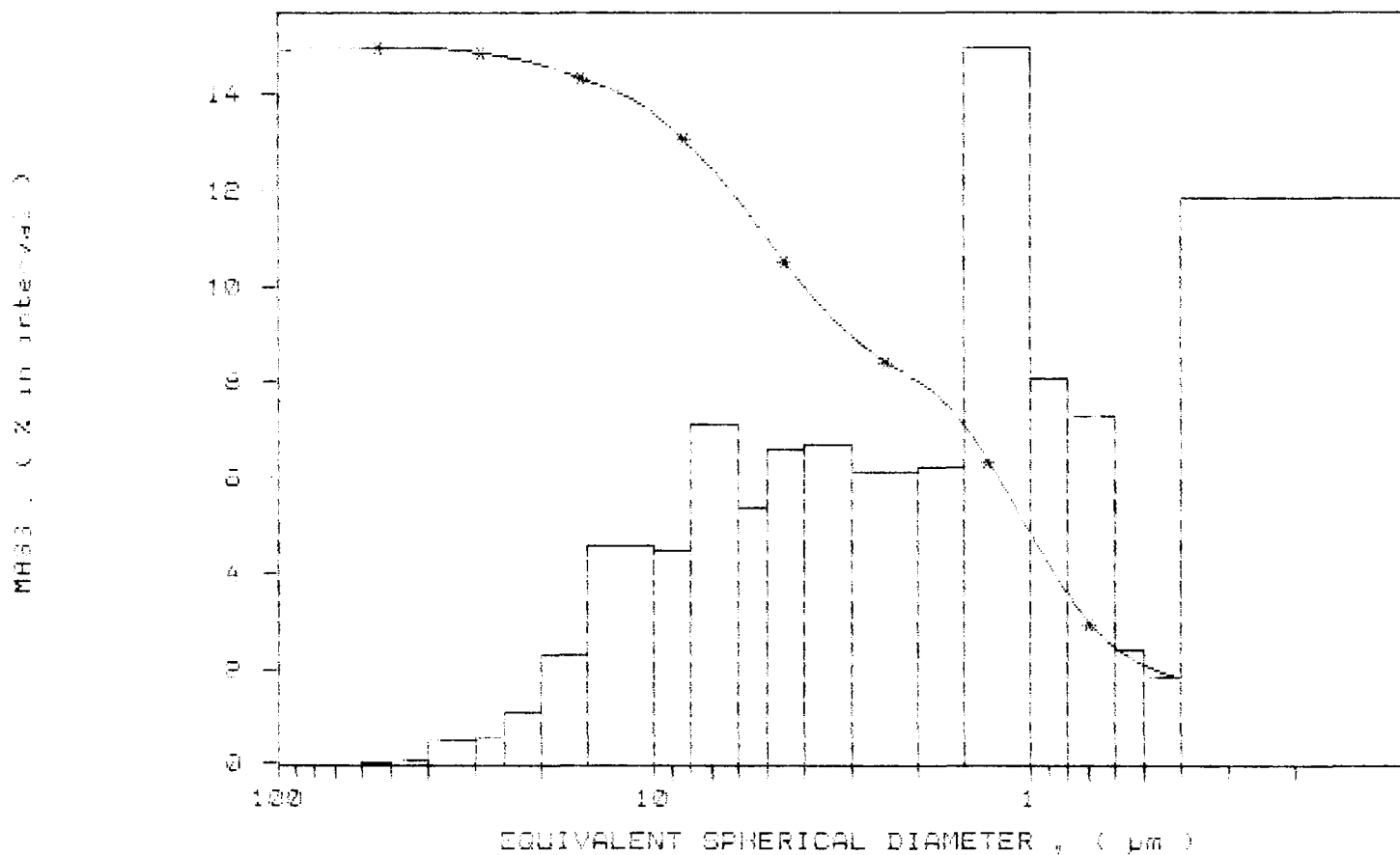
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /103  
 SAMPLE ID: Hole 92-4 # 16472  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASFLINE/FULL SCALE: 124/ 83 kilocounts/sec

UNIT NUMBER: 1  
 START 11:32:42 07/08/96  
 REPT 11:40:48 07/08/96  
 TOT RUN TIME 0:07:48  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7605 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /104  
 SAMPLE ID: Hole 92-4 # 16473  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
 START 13:11:16 07/08/96  
 REPT 13:19:12 07/08/96  
 TOT RUN TIME 0:07:38  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7606 cp  
 RUN TYPE: High Speed

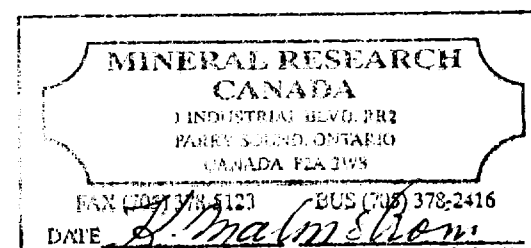
STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.33  $\mu$ m MODAL DIAMETER: 1.13  $\mu$ m

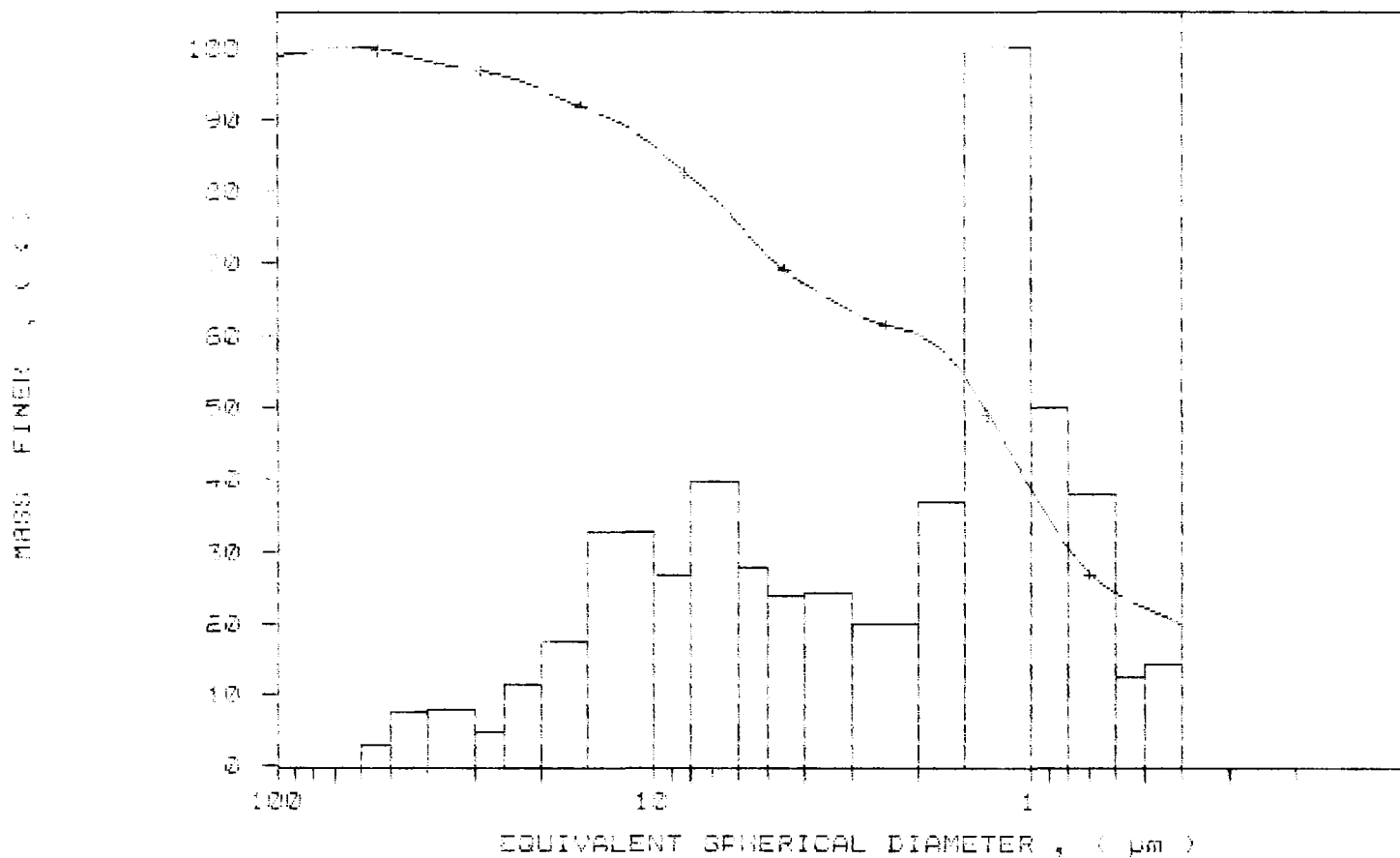
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 98.9                               | 1.1                           |
| 80.00                  | 99.5                               | -0.6                          |
| 60.00                  | 99.9                               | -0.4                          |
| 50.00                  | 99.4                               | 0.5                           |
| 40.00                  | 98.1                               | 1.2                           |
| 30.00                  | 96.8                               | 1.3                           |
| 25.00                  | 96.1                               | 0.8                           |
| 20.00                  | 94.2                               | 1.9                           |
| 15.00                  | 91.4                               | 2.8                           |
| 10.00                  | 86.1                               | 5.3                           |
| 8.00                   | 81.8                               | 4.3                           |
| 6.00                   | 75.5                               | 6.3                           |
| 5.00                   | 71.0                               | 4.5                           |
| 4.00                   | 67.2                               | 3.8                           |
| 3.00                   | 63.3                               | 3.9                           |
| 2.00                   | 60.1                               | 3.2                           |
| 1.50                   | 54.2                               | 5.9                           |
| 1.00                   | 38.3                               | 15.9                          |
| 0.80                   | 30.3                               | 8.0                           |
| 0.60                   | 24.2                               | 6.1                           |
| 0.50                   | 22.2                               | 2.1                           |
| 0.40                   | 19.9                               | 2.3                           |



SAMPLE DIRECTORY/NUMBER: DATAB /104  
SAMPLE ID: Hole 92-4 # 16473  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
START 13:11:16 07/08/96  
REPRT 13:19:12 07/08/96  
TOT RUN TIME 0:07:38  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

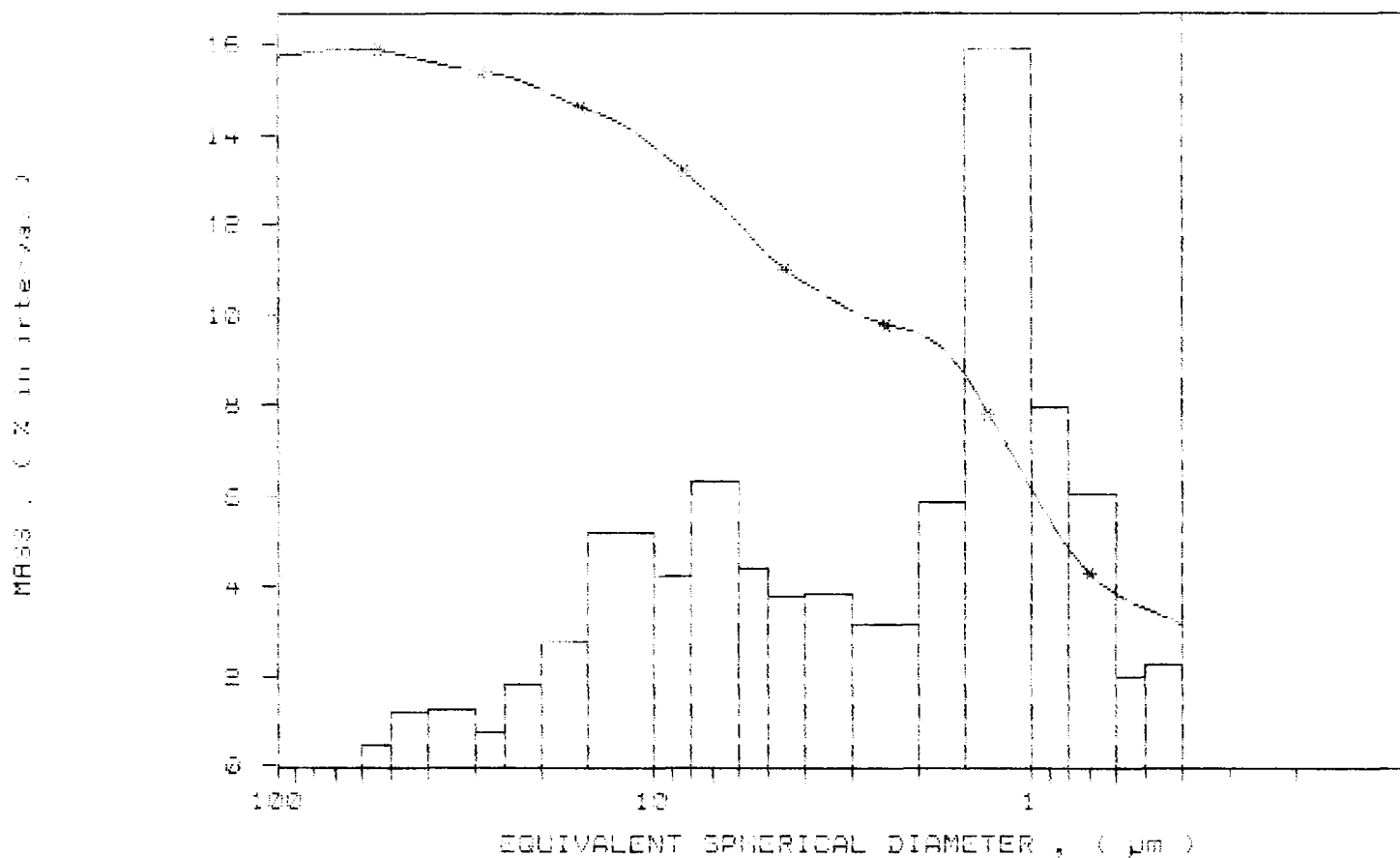
CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAR /104  
SAMPLE ID: Hole 92-4 # 16473  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 99 kilocounts/sec

UNIT NUMBER: 1  
START 13:11:16 07/08/96  
REPT 13:19:12 07/08/96  
TOT RUN TIME 0:07:38  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7606 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SediGraph 5100 V3.02

SAMPLE DIRECTORY/NUMBER: DATAB /105  
 SAMPLE ID: Hole 92-4 # 16474  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 91 kilocounts/sec

UNIT NUMBER: 1  
 START 13:31:59 07/08/96  
 RFPRT 13:39:58 07/08/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

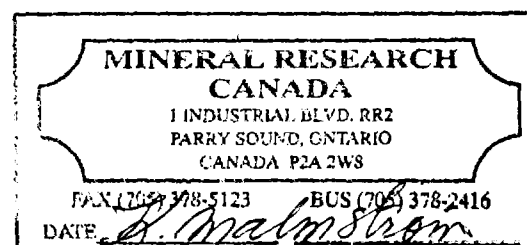
REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 1.53  $\mu$ m

MODAL DIAMETER: 0.97  $\mu$ m

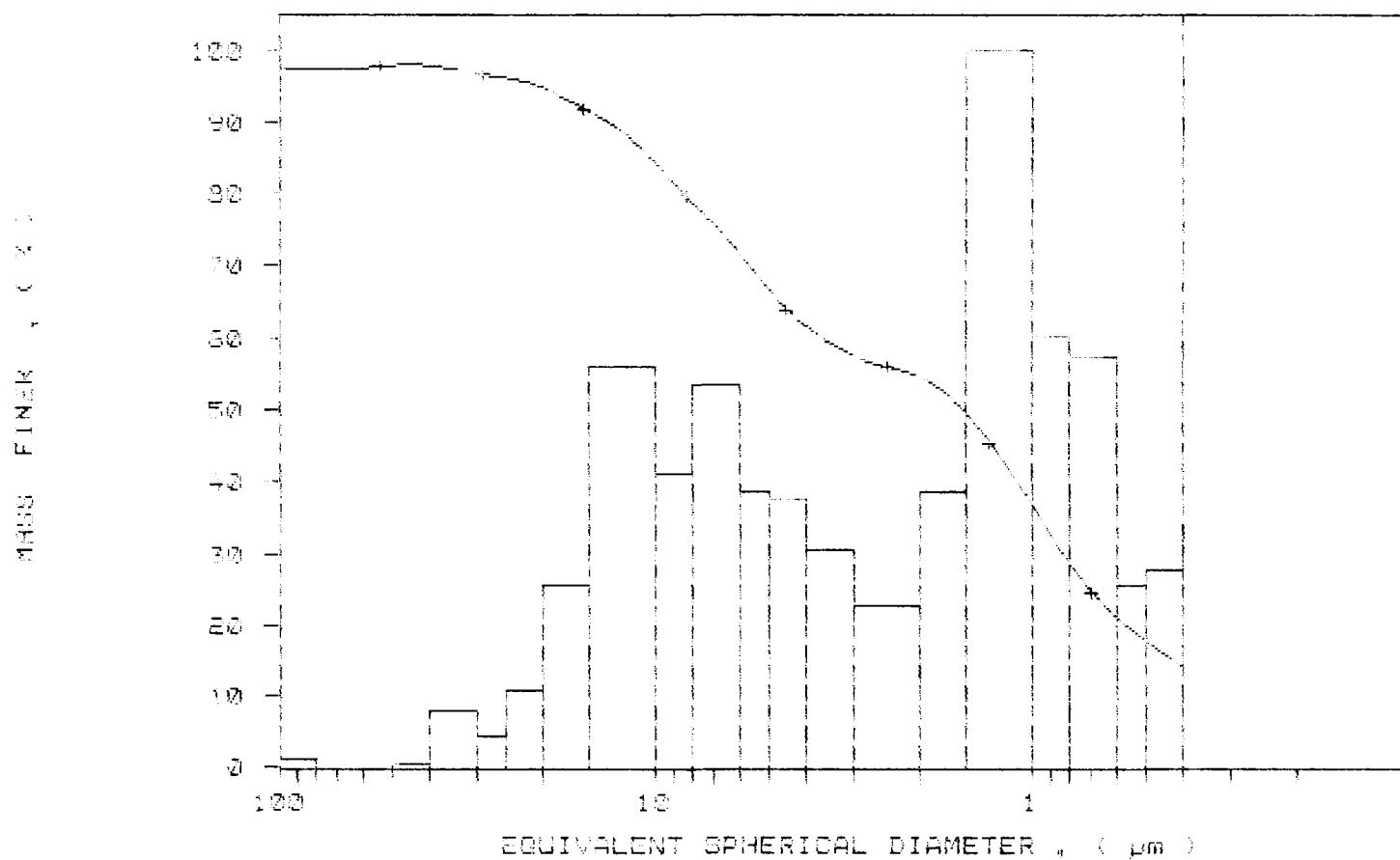
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 97.5                               | 2.5                           |
| 80.00                  | 97.4                               | 0.2                           |
| 60.00                  | 97.5                               | -0.1                          |
| 50.00                  | 97.9                               | -0.4                          |
| 40.00                  | 97.8                               | 0.1                           |
| 30.00                  | 96.8                               | 1.1                           |
| 25.00                  | 96.2                               | 0.6                           |
| 20.00                  | 94.7                               | 1.4                           |
| 15.00                  | 91.4                               | 3.4                           |
| 10.00                  | 84.0                               | 7.3                           |
| 8.00                   | 78.6                               | 5.4                           |
| 6.00                   | 71.6                               | 7.0                           |
| 5.00                   | 66.5                               | 5.1                           |
| 4.00                   | 61.6                               | 4.9                           |
| 3.00                   | 57.6                               | 4.0                           |
| 2.00                   | 54.6                               | 3.0                           |
| 1.50                   | 49.5                               | 5.1                           |
| 1.00                   | 36.5                               | 13.0                          |
| 0.80                   | 28.6                               | 7.9                           |
| 0.60                   | 21.1                               | 7.5                           |
| 0.50                   | 17.7                               | 3.4                           |
| 0.40                   | 14.1                               | 3.6                           |



SAMPLE DIRECTORY/NUMBER: DATAB /105  
 SAMPLE ID: Hole 92-4 # 16474  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 91 kilocounts/sec

UNIT NUMBER: 1  
 START 13:31:59 07/08/96  
 REPT 13:39:58 07/08/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER

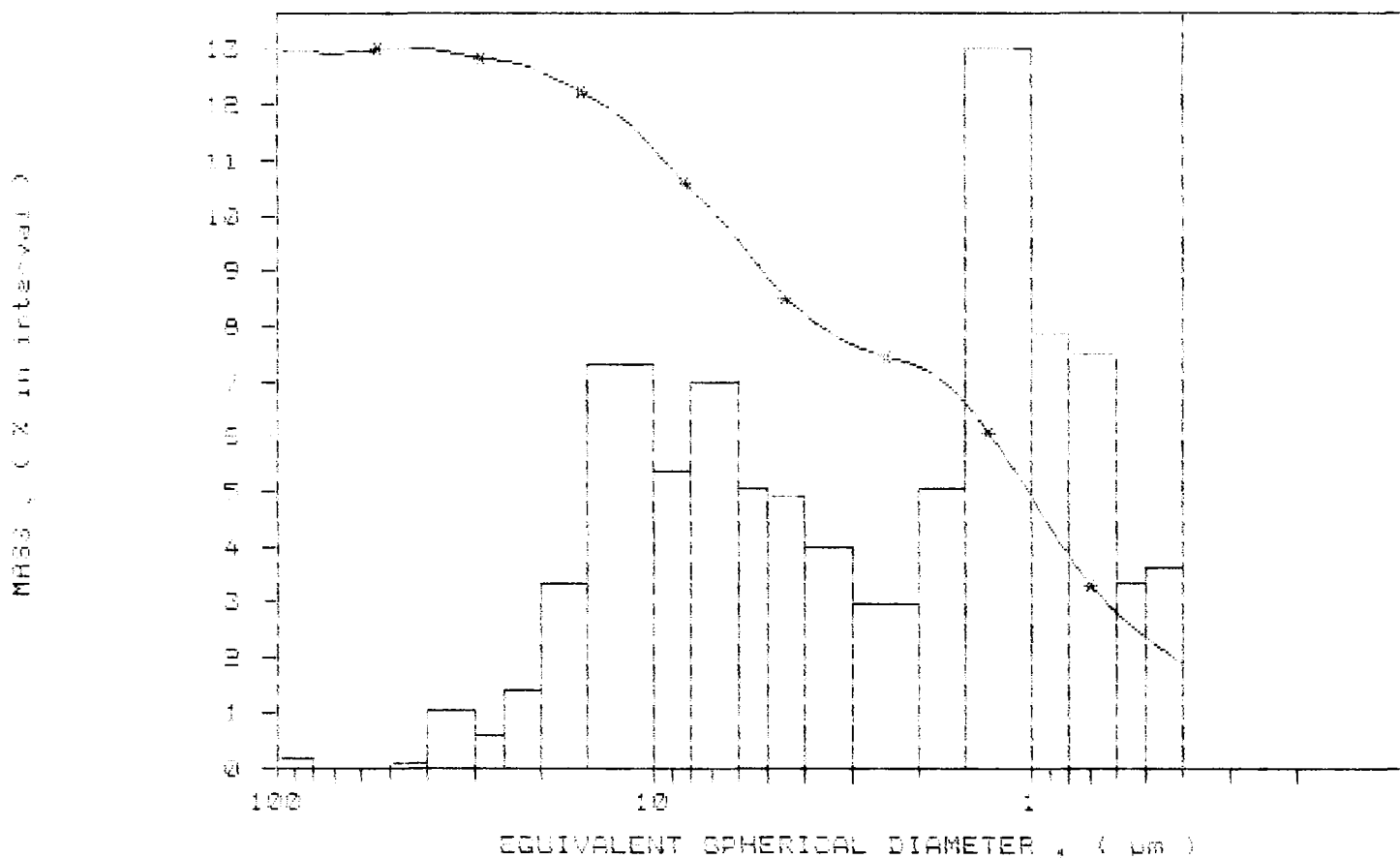




SAMPLE DIRECTORY/NUMBER: DATAB /105  
 SAMPLE ID: Hole 92-4 # 16474  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 91 kilocounts/sec

UNIT NUMBER: 1  
 START 13:31:59 07/08/96  
 REPT 13:39:58 07/08/96  
 TOT RUN TIME 0:07:41  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7604 cp  
 RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
 \* CUMULATIVE MASS PERCENT FINER VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /106  
 SAMPLE ID: Hole 92-4 # 16475  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

UNIT NUMBER: 1  
 START 14:06:51 07/08/96  
 REPT 14:14:37 07/08/96  
 TOT RUN TIME 0:07:28  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

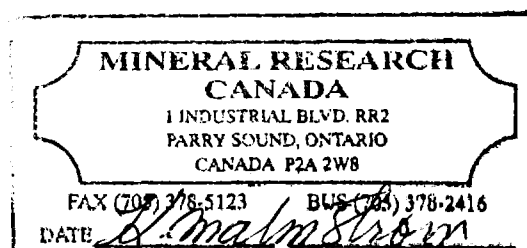
STARTING DIAMETER: 100.00  $\mu$ m  
 ENDING DIAMETER: 0.40  $\mu$ m

REYNOLDS NUMBER: 1.50  
 FULL SCALE MASS %: 100

## MASS DISTRIBUTION

MEDIAN DIAMETER: 0.87  $\mu$ m MODAL DIAMETER: 1.24  $\mu$ m

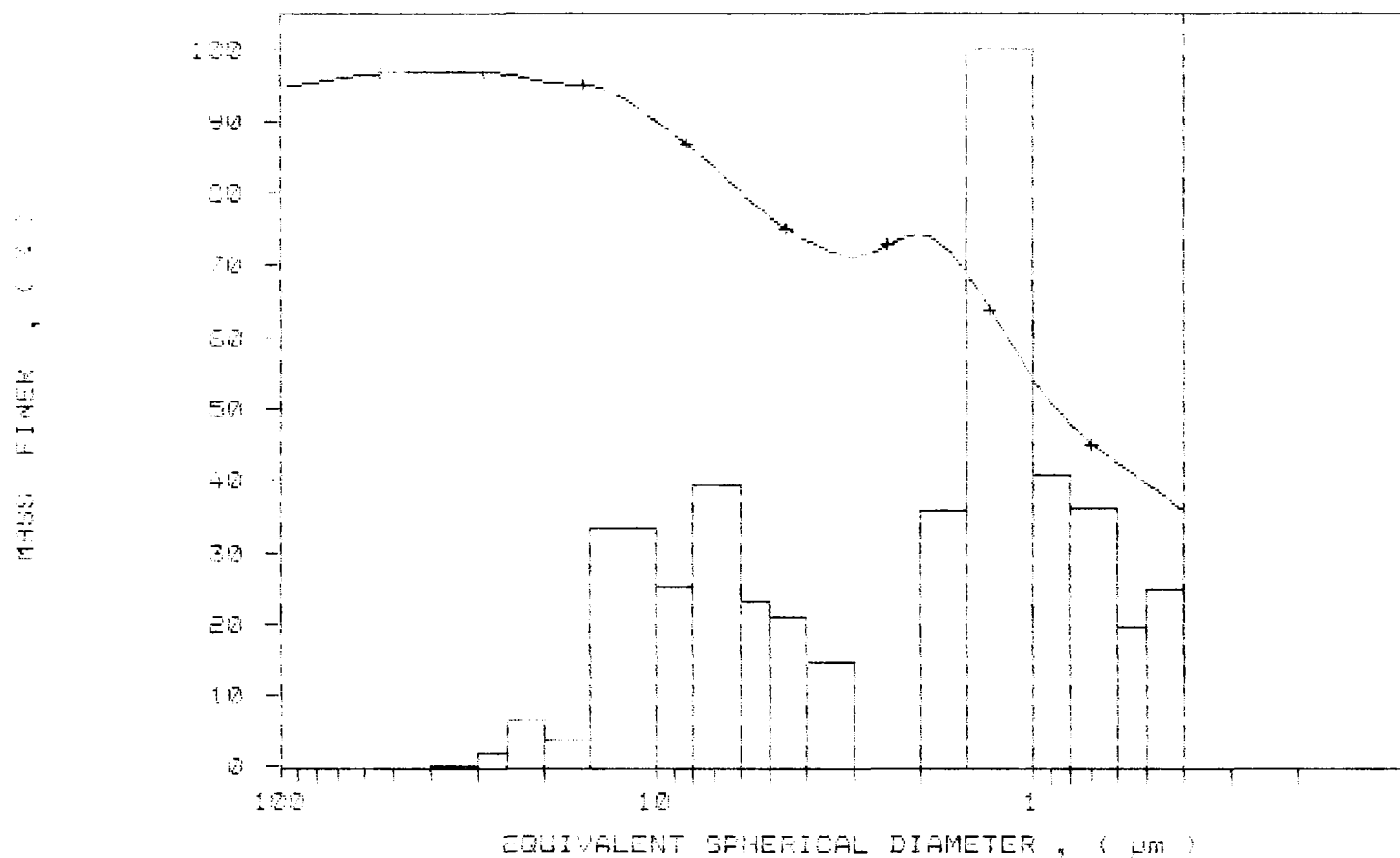
| DIAMETER<br>( $\mu$ m) | CUMULATIVE<br>MASS<br>FINER<br>(%) | MASS<br>IN<br>INTERVAL<br>(%) |
|------------------------|------------------------------------|-------------------------------|
| 100.00                 | 94.6                               | 5.4                           |
| 80.00                  | 95.4                               | -0.8                          |
| 60.00                  | 96.3                               | -0.9                          |
| 50.00                  | 96.6                               | -0.3                          |
| 40.00                  | 96.8                               | -0.2                          |
| 30.00                  | 96.7                               | 0.1                           |
| 25.00                  | 96.4                               | 0.3                           |
| 20.00                  | 95.4                               | 1.0                           |
| 15.00                  | 94.8                               | 0.6                           |
| 10.00                  | 89.8                               | 5.0                           |
| 8.00                   | 86.1                               | 3.8                           |
| 6.00                   | 80.2                               | 5.9                           |
| 5.00                   | 76.7                               | 3.5                           |
| 4.00                   | 73.6                               | 3.1                           |
| 3.00                   | 71.4                               | 2.2                           |
| 2.00                   | 74.3                               | -2.9                          |
| 1.50                   | 68.9                               | 5.4                           |
| 1.00                   | 54.0                               | 14.9                          |
| 0.80                   | 47.9                               | 6.1                           |
| 0.60                   | 42.5                               | 5.4                           |
| 0.50                   | 39.5                               | 2.9                           |
| 0.40                   | 35.8                               | 3.7                           |



SAMPLE DIRECTORY/NUMBER: DATAB /106  
 SAMPLE ID: Hole 92-4 # 16475  
 SUBMITTER: MRC Inc.  
 OPERATOR: KM  
 SAMPLE TYPE: Clay  
 LIQUID TYPE: Water  
 ANALYSIS TEMP: 32.5 deg C  
 BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

UNIT NUMBER: 1  
 START 14:06:51 07/08/96  
 REPRT 14:14:37 07/08/96  
 TOT RUN TIME 0:07:28  
 SAM DENS: 2.6000 g/cc  
 LIQ DENS: 0.9949 g/cc  
 LIQ VISC: 0.7603 cp  
 RUN TYPE: High Speed

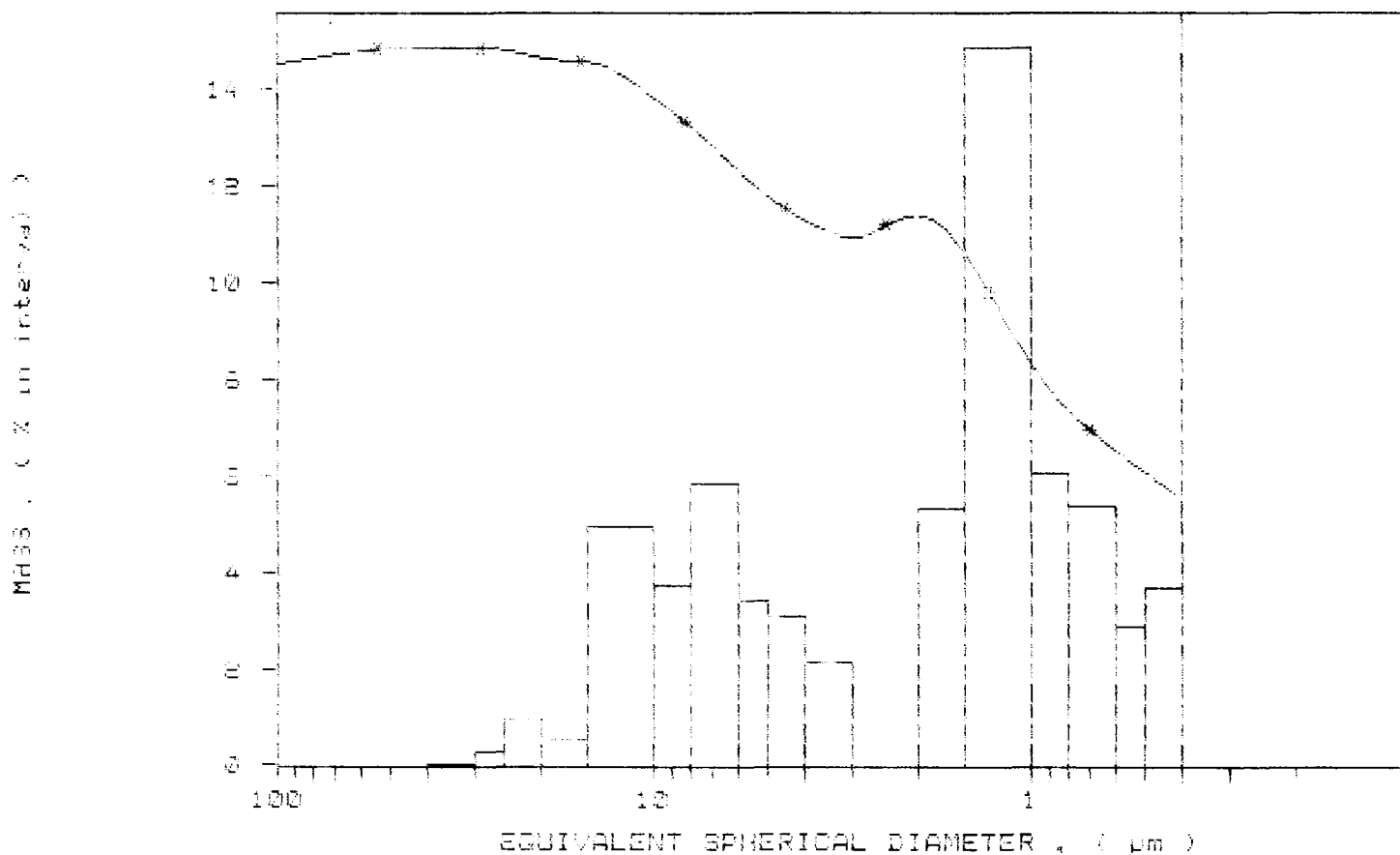
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER  
 MASS POPULATION VS. DIAMETER



SAMPLE DIRECTORY/NUMBER: DATAB /106  
SAMPLE ID: Hole 92-4 # 16475  
SUBMITTER: MRC Inc.  
OPERATOR: KM  
SAMPLE TYPE: Clay  
LIQUID TYPE: Water  
ANALYSIS TEMP: 32.5 deg C  
BASELINE/FULL SCALE: 124/ 107 kilocounts/sec

UNIT NUMBER: 1  
START 14:06:51 07/08/96  
REPT 14:14:37 07/08/96  
TOT RUN TIME 0:07:28  
SAM DENS: 2.6000 g/cc  
LIQ DENS: 0.9949 g/cc  
LIQ VISC: 0.7603 cp  
RUN TYPE: High Speed

MASS POPULATION VS. DIAMETER  
\* CUMULATIVE MASS PERCENT FINER VS. DIAMETER





Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.16778

- Instructions:
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regl Recorder.
  - A separate copy of this form mus
  - Technical reports and maps mus
  - A sketch, showing the claims the



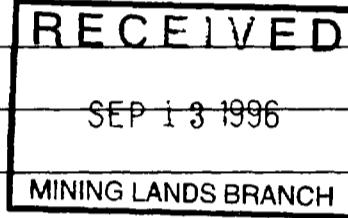
42J01NE0022 2.16778 KIPLING

900

|  |   |  |
|--|---|--|
| Recorded Holder(s)<br><i>Great Lakes Haolin Inc.</i>         |   | Client No.<br><i>221553</i>            |
| Address<br><i>100 Shirley Ave, Hitchener Ontario N2B 2E1</i> |   | Telephone No.<br><i>(519) 744-8956</i> |
| Mining Division<br><i>Pocumpine</i>                          | Township/Area<br><i>Kipling/Emerson</i> | M or G Plan No.                        |
| Dates Work Performed<br>From: <i>17/6-1996</i>               |   | To: <i>8/7-1996</i>                    |

Work Performed (Check One Work Group Only)

| Work Group                        | Type                    |
|-----------------------------------|-------------------------|
| Geotechnical Survey               |                         |
| Physical Work, Including Drilling |                         |
| Rehabilitation                    |                         |
| Other Authorized Work             | <i>Subsection 18(9)</i> |
| Assays                            |                         |
| Assignment from Reserve           |                         |



Total Assessment Work Claimed on the Attached Statement of Costs \$ 7000

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

| Name                     | Address                                   |
|--------------------------|---|
| <i>Kaarina Malmström</i> | <i>RR#2, Parry Sound, Ontario P2A 2W8</i> |
|                          |   |
|                          |   |

(attach a schedule if necessary)

Certification of Beneficial Interest \* See Note No. 1 on reverse side

|  |                           |  |
|--|---------------------------|--|
| I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder. | Date<br><i>July 18/96</i> | Recorded Holder or Agent (Signature)<br><i>[Signature]</i> |
|--|---------------------------|--|

Certification of Work Report

|   |                          |  |
|---|--------------------------|--|
| I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true. |                          |  |
| Name and Address of Person Certifying<br><i>KAARINA MALMSTRÖM - AS ABOVE</i>  |                          |  |
| Telephone No.<br><i>(705) 378-2416</i>  | Date<br><i>17/7-1996</i> | Certified By (Signature)<br><i>Kaarina Malmström</i> |

For Office Use Only

|                          |  |                                       |   |
|--------------------------|--|---------------------------------------|---|
| Total Value Cr. Recorded | Date Recorded                            | Mining Recorder<br><i>[Signature]</i> | Received Stamp<br><i>4th 84</i><br><b>30</b><br><i>9.50</i> |
|                          | Deemed Approval Date<br><i>OCT 28/96</i> | Date Approved<br><i>[Signature]</i>   |   |
|                          | Date Notice for Amendments Sent          |                                       |   |

| Work Report Number for Applying Reserve | Claim Number (see Note 2)     | Number of Claim Units |
|---|-------------------------------|-----------------------|
| N/A                                     | P 11123320                    | 1                     |
| N/A                                     | P 1198514                     | 1                     |
| N/A                                     | P 1198515                     | 1                     |
| N/A                                     | P 1198516                     | 1                     |
| N/A                                     | P 1198517                     | 1                     |
| N/A                                     | P 1198518                     | 1                     |
| N/A                                     | P 1198519                     | 1                     |
| N/A                                     | P 1198520                     | 1                     |
| N/A                                     | P 1198521                     | 1                     |
| N/A                                     | P 1198522                     | 1                     |
| N/A                                     | P 1198523                     | 1                     |
| N/A                                     | P 1198524                     | 1                     |
| N/A                                     | P 1198525                     | 1                     |
| N/A                                     | P 1198526                     | 1                     |
|   |                               |                       |
|   |                               |                       |
|   |                               |                       |
|   |                               |                       |
|   |                               |                       |
|   |                               |                       |
|   | <b>Total Number of Claims</b> | <b>14</b>             |

| Value of Assessment Work Done on this Claim | Value Applied to this Claim     |
|---|---------------------------------|
| \$ 7000                                     | 0                               |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| \$ 400                                      | \$ 400                          |
| <b>Total Value Work Done</b>                | <b>Total Value Work Applied</b> |
| \$ 7000                                     | \$ 5200                         |

| Value Assigned from this Claim | Reserve: Work to be Claimed at a Future Date |
|--------------------------------|--|
| \$ 5200                        | \$ 1800                                      |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| -                              |  |
| <b>Total Assigned From</b>     | <b>Total Reserve</b>                         |
| \$ 5200                        | \$ 1800                                      |

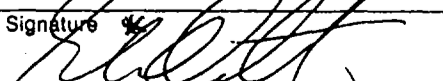
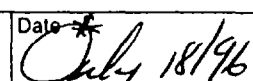
Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1.  Credits are to be cut back starting with the claim listed last, working backwards.
2.  Credits are to be cut back equally over all claims contained in this report of work.
3.  Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1:** Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

**Note 2:** If work has been performed on patented or leased land, please complete the following:

|   |   |  |
|---|---|--|
| I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed. | Signature *  | Date *  |
|---|---|--|

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction  
U 9660. 00467

2.16778

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

| Type   | Description                                  | Amount Montant | Totals Total global |
|--|--|----------------|---------------------|
| Wages Salaires   | Labour Main-d'oeuvre                         |                |                     |
|  | Field Supervision Supervision sur le terrain |                |                     |
| Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil | Type ROTAP 25x105                            | \$ 2625        |                     |
|  | MOISTORE 25x45                               | \$ 1125        |                     |
|  | SEDIGRAPH 25x130                             | \$ 3250        | \$ 4000             |
| Supplies Used Fournitures utilisées  | Type   |                |                     |
|  |  |                |                     |
|  |  |                |                     |
| Equipment Rental Location de matériel  | Type   |                |                     |
|  |  |                |                     |
|  |  |                |                     |
| Total Direct Costs Total des coûts directs   |  |                | \$ 4000             |

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

| Type  | Description | Amount Montant | Totals Total global |
|---|-------------|----------------|---------------------|
| Transportation Transport  | Type        |                |                     |
|   |             |                |                     |
|   |             |                |                     |
|   |             |                |                     |
| Food and Lodging Nourriture et hébergement  |             |                |                     |
| Mobilization and Demobilization Mobilisation et démoblisation   |             |                |                     |
| Sub Total of Indirect Costs Total partiel des coûts indirects   |             |                |                     |
| Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)  |             |                |                     |
| Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles) |             |                |                     |

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

|                                  |                          |
|----------------------------------|--------------------------|
| Total Value of Assessment Credit | Total Assessment Claimed |
|                                  | x 0.50 =                 |

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

|                                      |                            |
|--------------------------------------|----------------------------|
| Valeur totale du crédit d'évaluation | Évaluation totale demandée |
|                                      | x 0,50 =                   |

Certification Verifying Statement of Costs

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as \* PRESIDENT I am authorized (Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature [Signature] Date July 18/96

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



October 18, 1996

Gary White  
Mining Recorder  
60 Wilson Avenue, 1st Floor  
Timmins, ON  
P4N 2S7

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.16778

**Subject: Transaction Number(s): W9660.00467**

---

After reviewing the Work Report(s) we have prepared this letter and the attached summary, which lists the results of our review. Requirements of the Assessment Work Regulation may not have been fully met. Please examine the summary to determine the next course of action concerning the identified Work Report(s).

NOTE: The 90 day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, is no longer in effect for this submission.

PLEASE NOTE ANY REQUESTED REVISIONS MUST BE SUBMITTED IN DUPLICATE.

If the anniversary dates for the mining claims affected by this correspondence have not passed, a number of options are available. Please contact the Mining Recorder to discuss these options.

If you have any questions regarding this correspondence, please contact Bruce Gates at (705)670-5856.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY  
Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mines and Minerals Division



## Work Report Assessment Results

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**Submission Number:** 2.16778

**Date Correspondence Sent:** October 18, 1996

**Assessor:** Bruce Gates

---

| <b>Transaction Number</b> | <b>First Claim Number</b> | <b>Township(s) / Area(s)</b> | <b>Status</b> | <b>Approval Date</b> |
|---------------------------|---------------------------|------------------------------|---------------|----------------------|
| W9660.00467               | 1112320                   | KIPLING                      | Approval      | October 18, 1996     |

**Section:**

18 Other INDUS

**Correspondence to:**

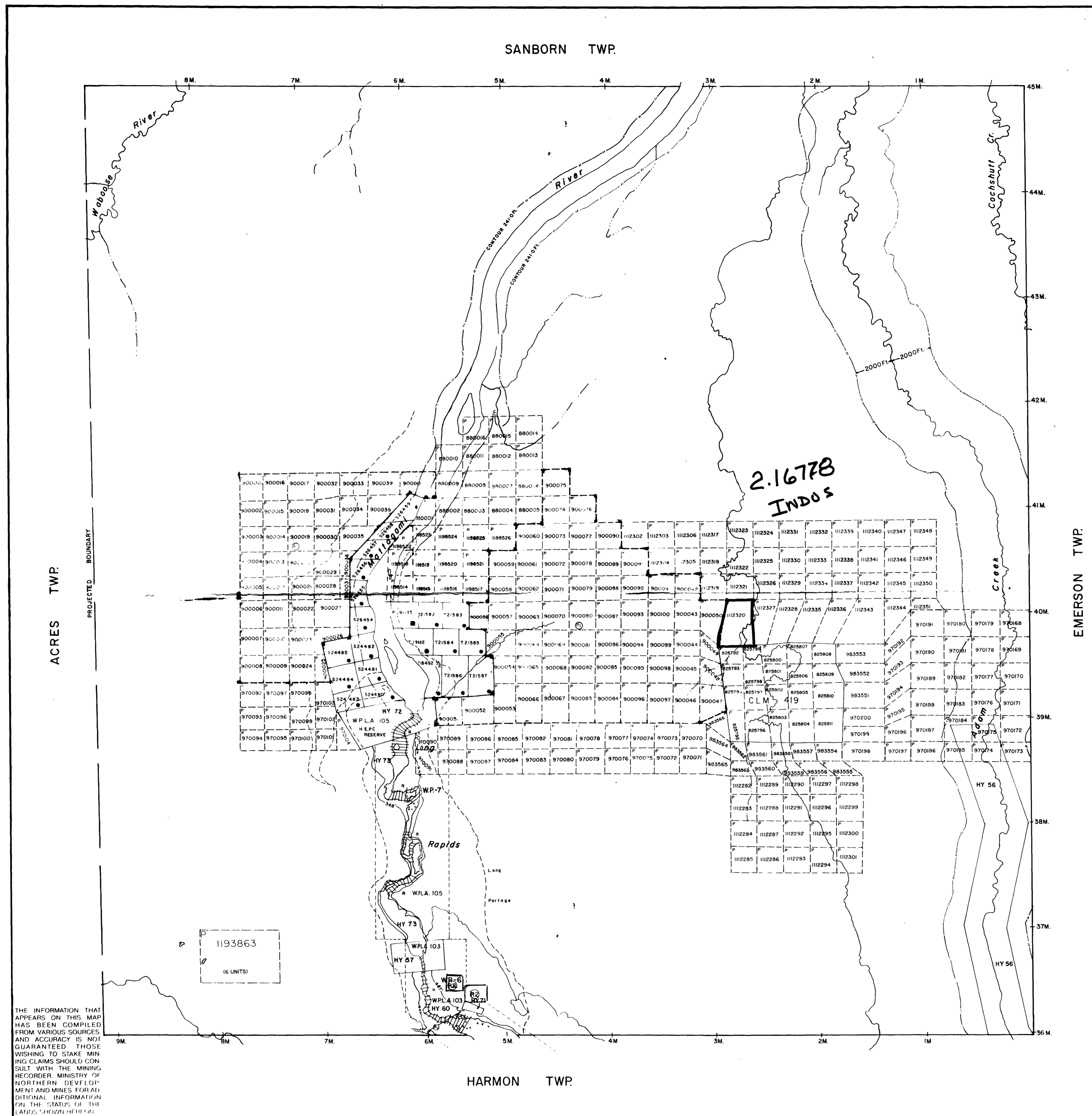
Mining Recorder  
Timmins, ON

Resident Geologist  
Timmins, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

GREAT LAKES KAOLIN INC.  
WATERLOO, ONTARIO



**LEGEND**

|                                    |  |
|------------------------------------|--|
| HIGHWAY AND ROUTE No.              |  |
| OTHER ROADS                        |  |
| TRAILS                             |  |
| SURVEYED LINES:                    |  |
| TOWNSHIPS, BASE LINES, ETC.        |  |
| LOTS, MINING CLAIMS, PARCELS, ETC. |  |
| UNSURVEYED LINES:                  |  |
| LOT LINES                          |  |
| PARCEL BOUNDARY                    |  |
| MINING CLAIMS ETC.                 |  |
| RAILWAY AND RIGHT OF WAY           |  |
| UTILITY LINES                      |  |
| NON-PERENNIAL STREAM               |  |
| FLOODING OR FLOODING RIGHTS        |  |
| SUBDIVISION OR COMPOSITE PLAN      |  |
| RESERVATIONS                       |  |
| ORIGINAL SHORELINE                 |  |
| MARSH OR MUSKEG                    |  |
| MINES                              |  |
| TRAVERSE MONUMENT                  |  |

**DISPOSITION OF CROWN LANDS**

| TYPE OF DOCUMENT                | SYMBOL |
|---------------------------------|--------|
| PATENT, SURFACE & MINING RIGHTS |        |
| " SURFACE RIGHTS ONLY           |        |
| " MINING RIGHTS ONLY            |        |
| LEASE SURFACE & MINING RIGHTS   |        |
| " SURFACE RIGHTS ONLY           |        |
| " MINING RIGHTS ONLY            |        |
| LICENCE OF OCCUPATION           |        |
| ORDER-IN-COUNCIL                |        |
| RESERVATION                     |        |
| CANCELLED                       |        |
| SAND & GRAVEL                   |        |

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

**NOTES:**

FLOODING RESERVATION TO CONTOUR ELEVATION 241.0 FT. FROM GRAND RAPIDS TO TAILWATER OF KIPLING G.S.T. RESERVED FOR ONTARIO HYDRO.

FLOODING RESERVATION ON ADAM CREEK EXTENDED TO 2000' EACH SIDE OF CENTERLINE OF CREEK, RESERVED FOR ONTARIO HYDRO.

**AREAS WITHDRAWN FROM DISPOSITION**

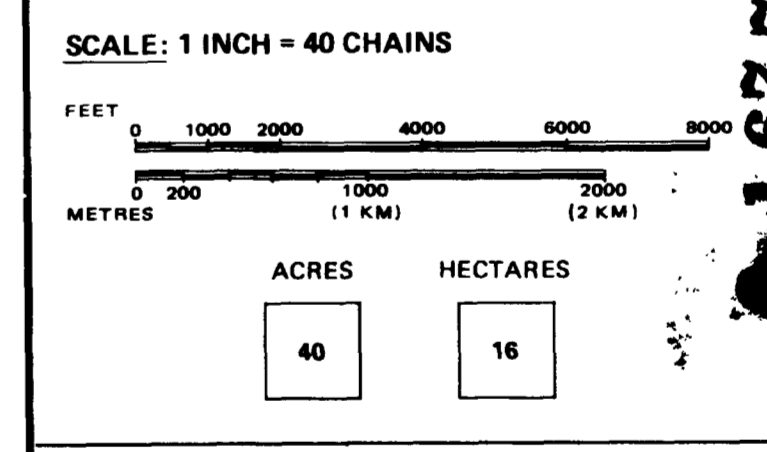
M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.-S. - MINING AND SURFACE RIGHTS

| Description | Order No. | Date | Disposition | File |
|-------------|-----------|------|-------------|------|
|             |           |      |             |      |

LAND NOT OPEN FOR STAKING, SEC. 31(1) OF THE MINING ACT, R.S.O. 1980.

MINING AND SURFACE RIGHTS WITHDRAWN FROM PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 35 OF THE MINING ACT, R.S.O. 1990, ORDER NO. W-P 35-94 NER DATED 94-MAY-92.

**W 9660 00467**



TOWNSHIP OF  
**KIPLING**

DISTRICT  
**COCHRANE**

MINING DIVISION  
**PORCUPINE**

Ministry of Natural Resources Ontario  
 Ministry of Northern Development and Mines

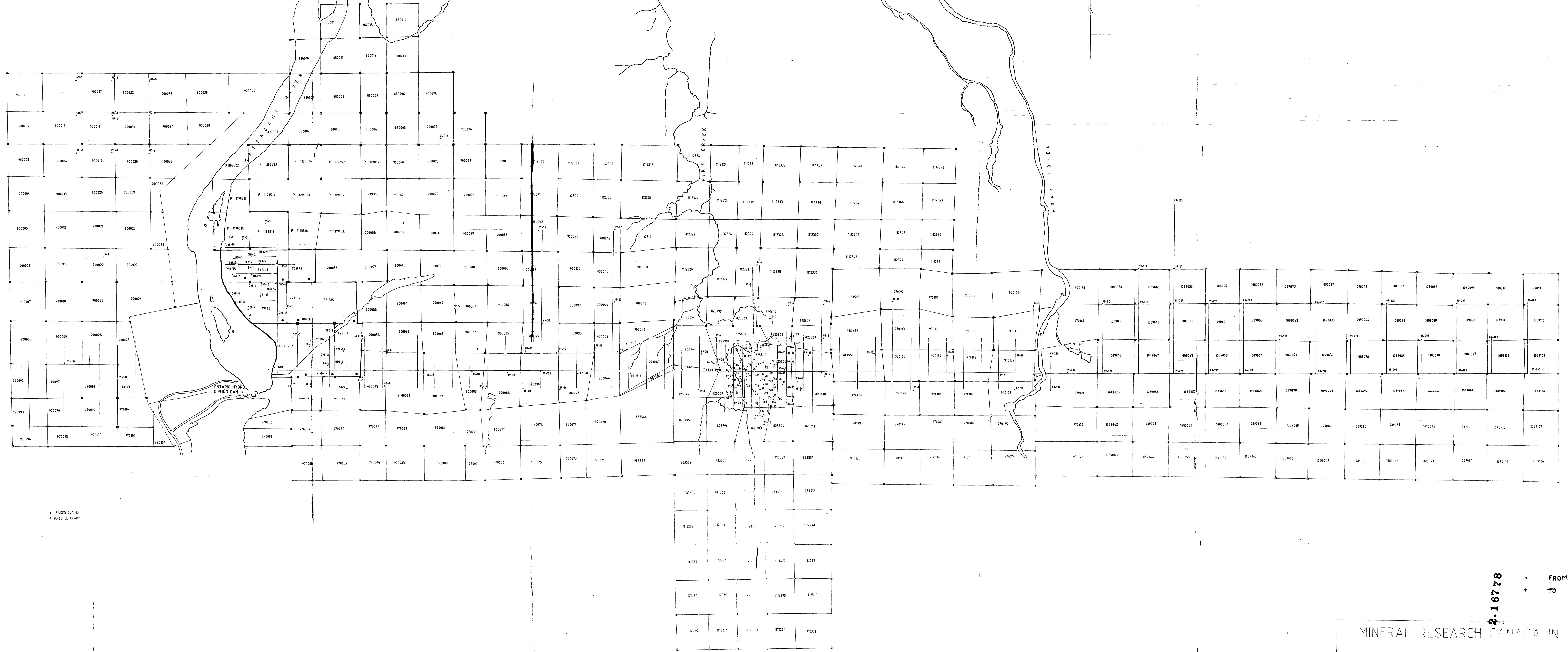
Date: JULY 1986 Plan No: G-896

National Topographic Series

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



RECEIVED  
 SEP 13 1986  
 MINING LANDS BRANCH



● LEASED CLAIMS  
 ▲ PATENTED CLAIMS

FROM  
 TO  
 82 29 T-2

MINERAL RESEARCH CANADA INC.

DRILL HOLE PLAN

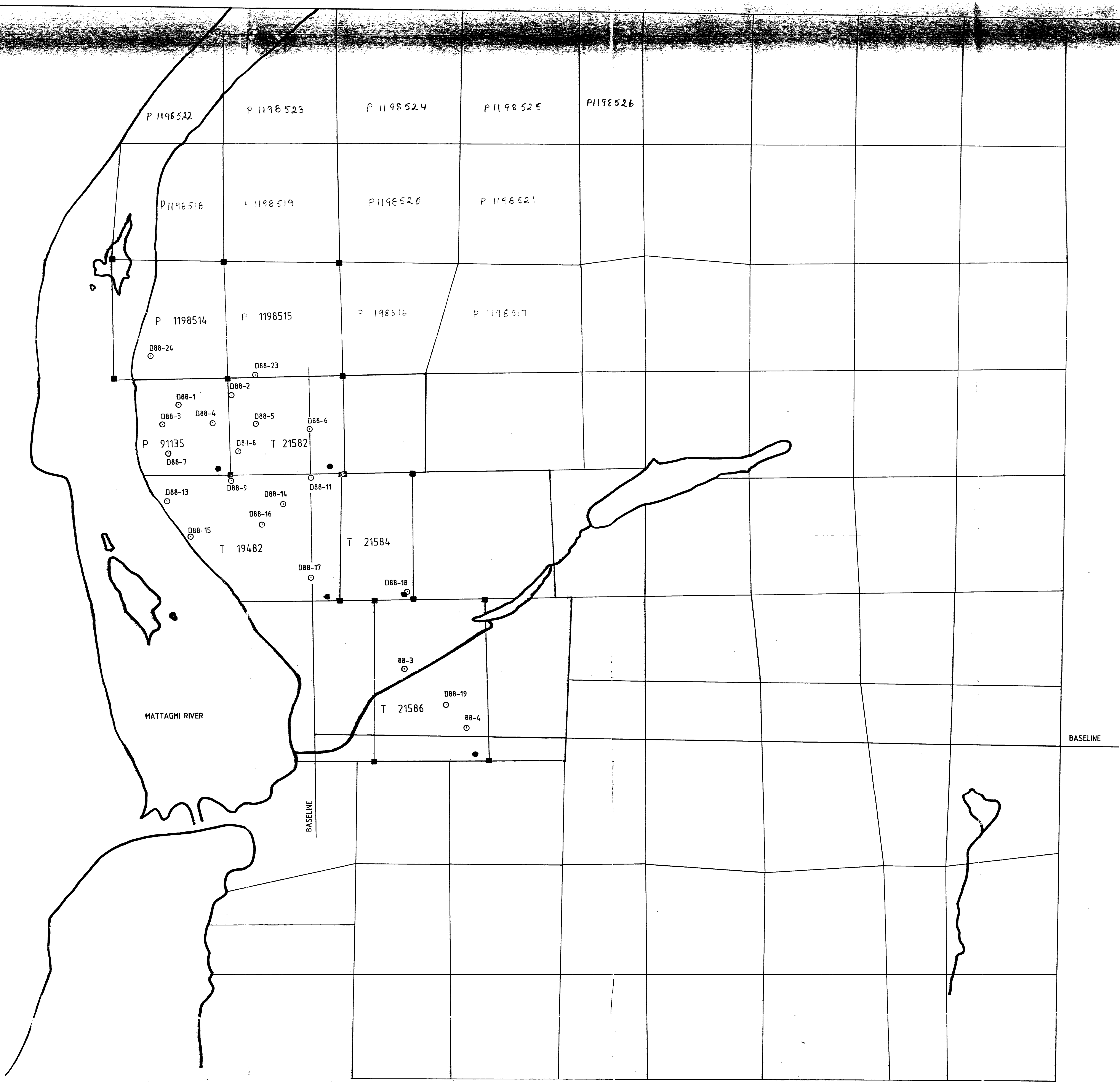
SCALE 1:12500 1"=1000'

DRAWING NO. \_\_\_\_\_

DATE: \_\_\_\_\_

RECEIVED  
 REF: 1 & 106  
 MINING - LAKE STURGEON



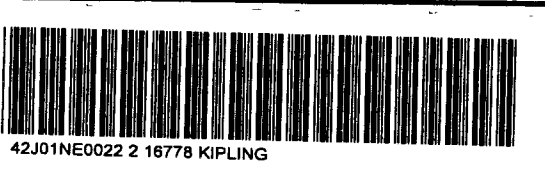


- Claim Post
- Patented Claim
- Leased Claim

500.0'

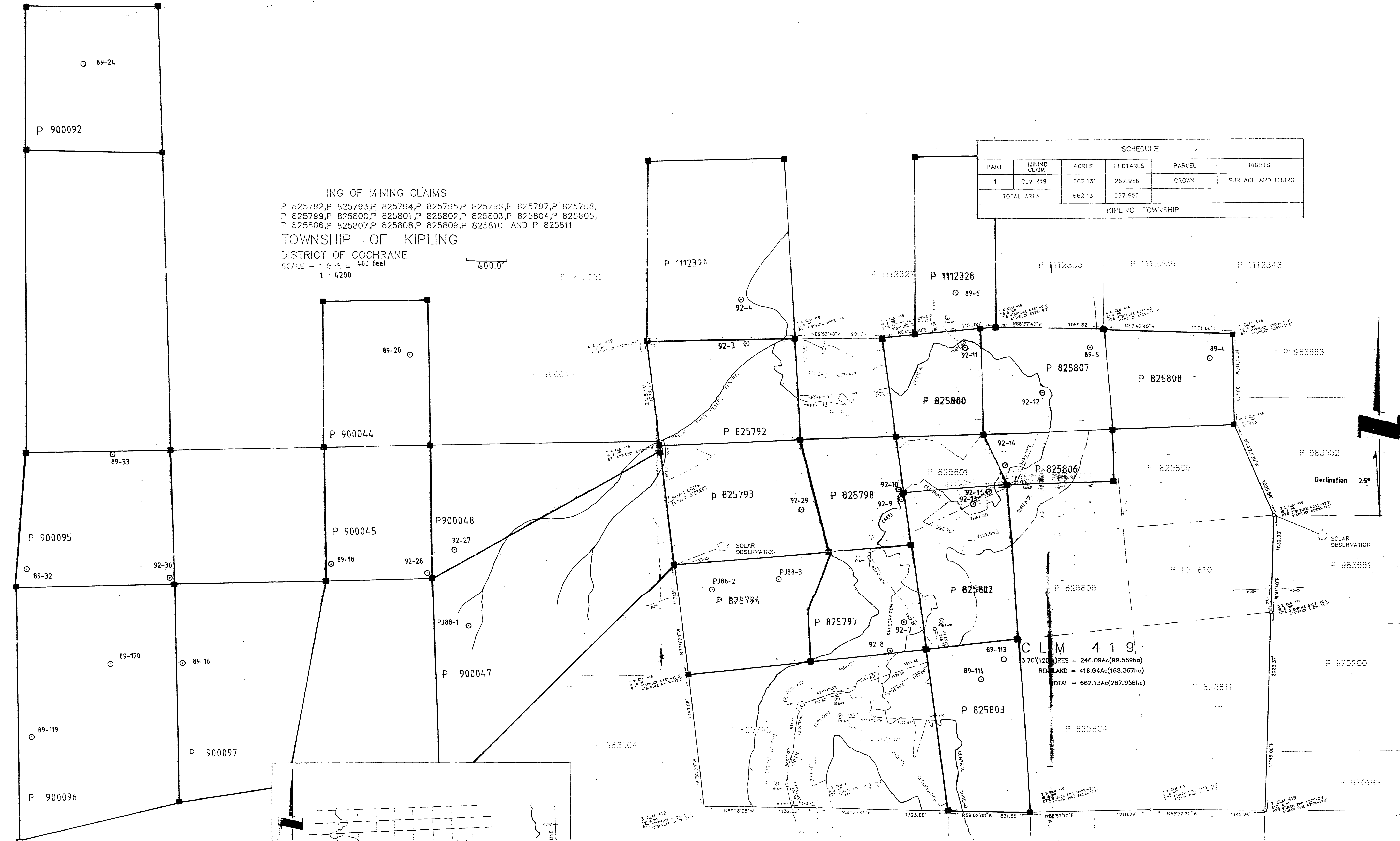
2.16778

|  |             |                     |
|--|-------------|---------------------|
| MINERAL RESEARCH CANADA Inc. RECEIVED<br>KIPLING PROJECT<br>DRILL HOLE PLAN<br>DOUGLAS |             |                     |
| SCALE 1:600 10"=500.0'   | DRAWING No. | DATE: FEBRUARY 1995 |
| ALL DRILL HOLES AT -90°  |             |                     |

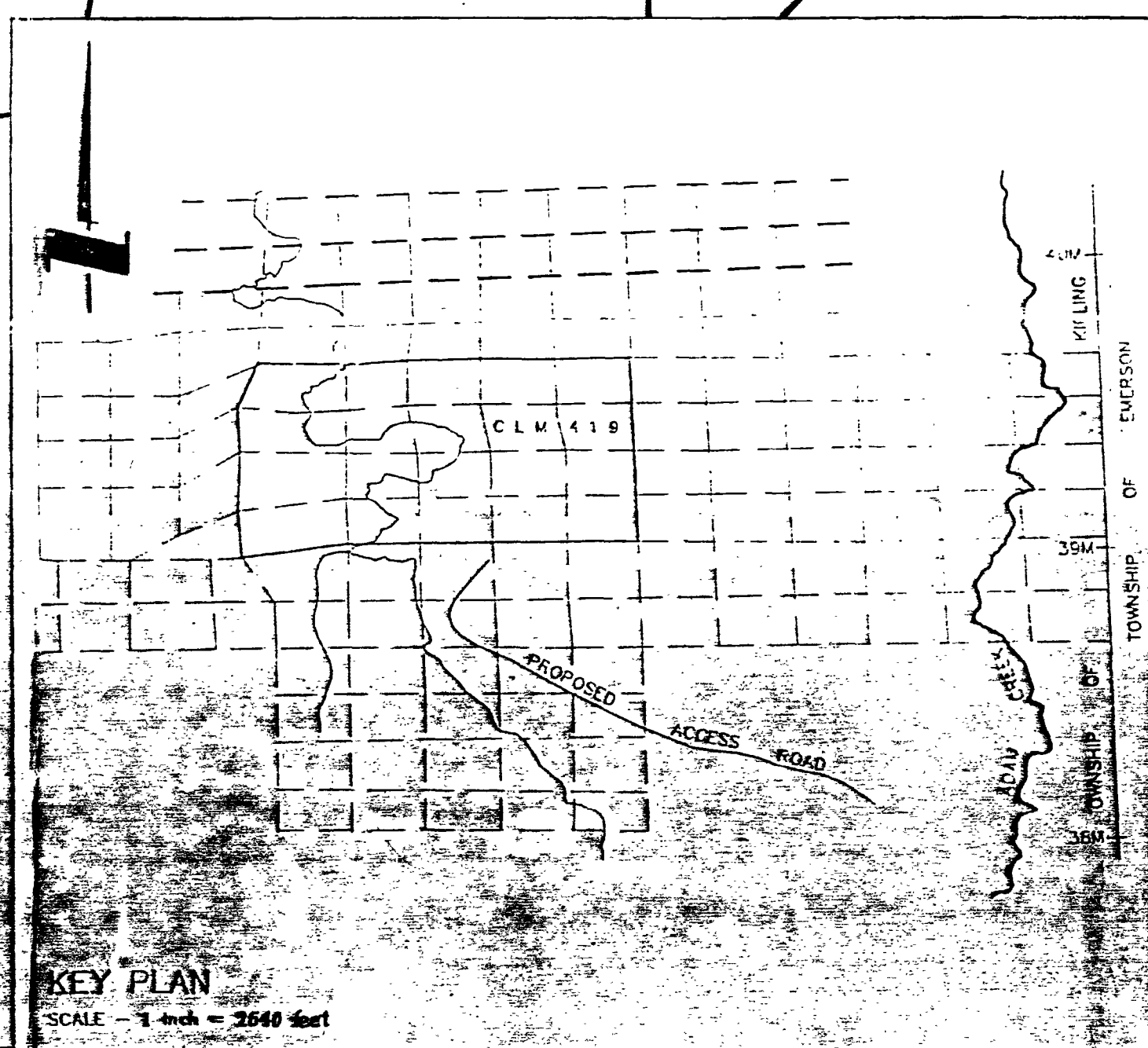


| SCHEDULE         |              |        |          |        |                    |
|------------------|--------------|--------|----------|--------|--------------------|
| PART             | MINING CLAIM | ACRES  | HECTARES | PARCEL | RIGHTS             |
| 1                | CLM 419      | 662.13 | 267.956  | CROWN  | SURFACE AND MINING |
| TOTAL AREA       |              | 662.13 | 267.956  |        |                    |
| KIPLING TOWNSHIP |              |        |          |        |                    |

ING OF MINING CLAIMS  
P 825792,P 825793,P 825794,P 825795,P 825796,P 825797,P 825798,  
P 825799,P 825800,P 825801,P 825802,P 825803,P 825804,P 825805,  
P 825806,P 825807,P 825808,P 825809,P 825810 AND P 825811  
TOWNSHIP OF KIPLING  
DISTRICT OF COCHRANE  
SCALE - 1 inch = 400 feet  
1 : 4200



CLM 419  
3.70(120)RES = 246.09Ac(99.588ha)  
REAL LAND = 416.04Ac(168.367ha)  
TOTAL = 662.13Ac(267.956ha)



- LEGEND
- 1. DENOTES PLANTED MONUMENT (CLM POSTS)
  - 2. DENOTES BEAR MONUMENT (CLM POSTS)
  - 3. DENOTES 2 1/2" DIA BRONZE BEAR 250 FT LONG
  - 4. DENOTES 2 1/2" DIA BRONZE BEAR 100 FT LONG
  - 5. DENOTES 2 1/2" DIA BRONZE BEAR 50 FT LONG
  - 6. DENOTES 2 1/2" DIA BRONZE BEAR 25 FT LONG
  - 7. DENOTES WITNESS
  - 8. DENOTES WOODEN BEAR 400 FT
  - 9. DENOTES IRON BEAR 25 FT
  - 10. DENOTES WANTED
  - 11. DENOTES AND PC
  - 12. ALL HANGING LINES HAVE BEEN VERIFIED
  - 13. ALL DRILL HOLES ARE IN 1994

MINERAL RESEARCH CANADA Inc.  
KIPLING DRILL PLAN  
PIT AREA

BEARING NOTE  
BEARINGS ARE MAGNETIC AND ARE REFERRED TO THE MERIDIAN  
LONGITUDE IS 200°50' AND REFERRED TO THE MERIDIAN  
LONGITUDE IS 210°30'

216778

RECEIVED  
SEP 18 1996  
MINING LANDS BRANCH

